

CONTRACT NO. ZNB00149/00000/00/HOD/INF/20T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0+00 TO KM 10+00 IN ZULULAND DISTRICT UNDER EMPANGENI REGION

CIDB GRADE 9 CE

Name of Tenderer:	

This tender closes at 11:00 on Tuesday 28 March 2023 at the offices of the Department of Transport located at 172 Burger Street, Pietermaritzburg, 3201

LATE SUBMISSIONS WILL NOT BE CONSIDERED

Issued by:

The Department of Transport 172 Burger Street PIETERMARITZBURG 3201

Contact Name: Mr MJ Nkabini Telephone: 033 355 0620 Prepared by:

MORNINGSIDE

Ibhongo consulting Engineers (Pty) Ltd 71 Fifth Avenue

4001

Contact Name: Mr S Sumo Telephone: 031 324 22 00





PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00149/00000/00/HOD/INF/20T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0+00 TO KM 10+00 IN ZULULAND DISTRICT UNDER EMPANGENI REGION

Tender section of document: Pages T1 – T62
Contract section of document: Pages C1 - C258

CONTENTS

Section	number and heading	Page Colours
The Te	nder	
Part T1:	Tendering procedures	
T1.1	Tender Notice and Invitation to Tender	White
T1.2	Tender Data	Pink
	Returnable documents	
T2.1	List of Returnable Documents	Yellow
T2.2	Returnable Schedules	Yellow
The Co	entract	
Part C1	: Agreements and Contract Data	
C1.1	Form of Offer and Acceptance	Yellow
C1.2	Contract Data	Yellow
C1.3	Performance Guarantee	White
C1.4	Agreement in terms of Section 37(2) of the Occupational	
	Health and Safety Act No. 85 of 1993	White
C1.5	Retention Money Guarantee	White
C1.6	Transfer of Rights	White
Part C2	: Pricing Data	
C2.1	Pricing Assumptions	Yellow
C2.2	Bill of Quantities	Yellow
Part C3	: Scope of Work	
C3.1	Standard Specifications	Blue
C3.2	Project Specifications	Blue
C3.3	Particular Specifications	Blue
Part C4	: Site Information	
C4.1	Locality Plan	Green
C4.2	Example of Contract Signboard Details	Green
C4.3	Existing Services Report	Green
C4.4	Conditions on Site: Materials Information	Green
C4.5	Traffic Information	Green
C4.6	Any other relevant technical reports (delete if not required)	Green

DOCUMENT CHECKLIST

This document checklist is provided to assist the Tenderer.

		ITEMS	CHECKED
1		Returnable Schedules in Section T2.2	
2		Correct Tender Offer carried forward to C1.1 Form of Offer and Acceptance and the Form of Offer duly completed and signed	
3		Bill of Quantities:	
	i)	Completed in legible INK only	
	ii)	Corrections crossed out and initialled	
4		Contract specific data provided by the Contractor	

PART T1: TENDERING PROCEDURES

TABLE OF CONTENTS

T1.1	TENDER NOTICE AND INVITATION TO TENDER	T4
T1.2	TENDER DATA	T8

PLEASE NOTE:

Any appeals regarding the award of this bid should be lodged within 5 working days from the date of the publication of bid results in the which is published every week on Friday and may be downloaded from the website, <u>e-tenderportal /www.kzntransport.gov.za</u>, (select platforms that is available for publication)

The publication is also published in the following platforms, <u>www.tenderbulletin.gov.za</u> www.cidb.org.za/.

The address provided for the lodging of appeals is:

The Chairperson Bid Appeals Tribunal Private Bag X9082 Pietermaritzburg 3200

FAX NO.: 033 897 4501

T1.1 TENDER NOTICE AND INVITATION TO TENDER

CONTRACT NO. ZNB 00149/00000/00/HOD/INF/20T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0,0 TO KM 10,0 IN ZULULAND DISTRICT UNDER EMPANGENI REGION

The Province of KwaZulu-Natal, Department of Transport, invites tenders from contractors, experienced in roadworks, for The Rehabilitation Of Main Road 34-5 (P34-5) from Km 0.00 To Km 10.00 in Zululand under Empangeni Region. This project is in the province of KwaZulu-Natal in the district municipality of Zululand and local municipality of eDumbe. The duration of the project is 18 months

Only tenderers that satisfy the eligibility criteria stipulated in clause C.2.1 of the Tender Data are eligible to have their tenders considered.

Tenders must have a minimum CIDB contractor grading designation of 9CE.

Only tenderers who comply with the functionality criteria for experience of key persons, company past performance in similar Specialised projects, as stated in the Tender Data, are eligible to be considered for further evaluation.

Only locally produced or locally manufactured goods with a stipulated minimum threshold for local production and content as stated in the Tender Data will be considered. Failure to meet the minimum threshold for local production and content **will** lead to disqualification.

The successful tenderer must subcontract a minimum of 30% of the value of the Constructions Works to Targeted Enterprises through Contract Participation Goals (CPG) for a bidder that is BEE Level 1 EME or QSE that is more than 51% owned by black person(s).

Tenderers shall be required to demonstrate that they will have in their employ during the contract period the necessary personnel satisfying the requirements of the Scope of Work for labor-enhanced competencies for management and supervisory personnel.

Any tenderer that fails to meet the Prequalifying Criteria/ Local Production and Content/ Subcontracting as condition of tender requirements will be deemed invalid.

Preference points are offered to tenderers who comply with the requirements of PPPFA stipulated in clause C.3.11.1 of the Tender Data.

Tender documents will be available as from 10:00 on Thursday 12 September 2023 during working hours (i.e., 08:00 to 16:00 Monday to Friday) until 15:00 on the day prior to the Clarification Meeting. The physical address for collection of tender documents is: Department of Transport, Acquisition Section, 'B' Block, 172 Burger Street, Pietermaritzburg, 3201.

Free download of tender documents will be available on the www.kzntransport.gov.za and www.kzntransport.gov.za and www.kzntransport.gov.za and www.kzntransport.gov.za and payable in cash or by bank guaranteed cheque made out in favour of 'Province of KwaZulu-Natal' is payable if you wish to physical collect the tender documents.

Queries relating to this tender may be addressed to:

Bidding procedure enquiries:	Technical enquiries:
Mr Sandile Nkala	Mr Mzokhanyayo Nkabini
Telephone: 033 355 8600	Telephone: 033 355 0619
E-mail: Sandile.Nkala@Kzntransport.gov.za	E-mail:
	Mzokhanyayo.Nkabini@Kzntransport.gov.za

Deadline for the submission of all technical enquiries is the 17 March 2023 at 10h00.

A non-compulsory clarification Meeting with representatives of the Employer will be held virtually via MICROSOFT TEAMS application on Friday 24 February 2023 starting at 10h00 (Log in time 09h00 – 10h00). It is the responsibility of the bidder to ensure that they have network connectivity and power to log into the meeting on time and check developments on the Department's website www.kzntransport.gov.za i.e. Addendums etc.

Meeting Invite Link: https://bit.ly/ZNB00149

The closing time for receipt of tenders is 11h00 on Tuesday 28 March 2023 at KZN Department of Transport, 172 Burger Street, Pietermaritzburg, 3201

Telegraphic, telephonic, telex, facsimile, electronic, e-mail and late tenders will not be accepted.

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

CLARIFICATION MEETING VENUE PLAN

"DUE TO RISKS ASSOCIATED WITH COVID-19, PLEASE NOTE THAT THERE WILL BE A VIRTUAL CLARIFICATION MEETING. REFER TO THE BRIEFING NOTE ATTACHED (separately)."

Time and date: As per the advert

Meeting Invite Link: https://bit.ly/ZNB00149

LOCALITY DETAILS

Access to the Site can be obtained from the intersection of P34-4 and P404 which serves as links from Vryheid to eDumbe. From Durban use N2 towards northwest travel approximately 110kilometres then take Dokodweni off ramp to join R66 travel towards North then pass Eshowe through R66 continue with R66 approximately 211 kilometres and the road P34-5 intersect with the road mentioned above.

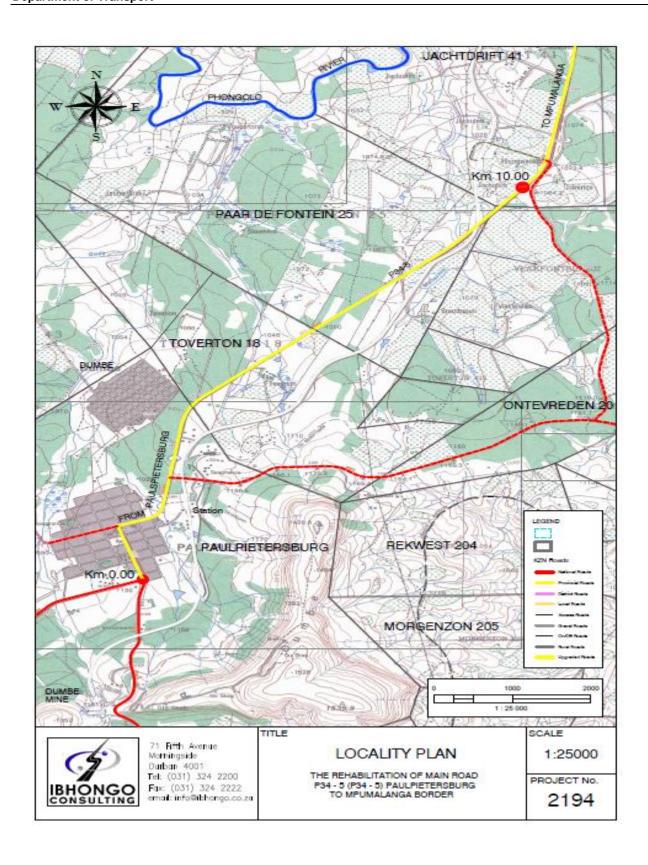
(GPS coordinates 27° 25' 52.7" S and 30° 49' 14.48" E).

From Newcastle join N11 towards north travel approximately 16 kilometres then take right to join R34 travel towards South continue with R34 approximately 95 kilometres towards Vryheid, then turn left next to Engen garage. Travel approximate 3kilometers on Main Road P528 then turn left to join P45 which will take you to eDumbe town to join P34-5 at km 1.00

(GPS coordinates 27° 25' 52.7" S and 30° 49' 14.48" E).

The rehabilitation of main road P34-5 end at km 10.0 and the coordinates are as follows

(GPS coordinates 27° 36' 62.27" S and 30° 49' 14.48" E).



T1.2 TENDER DATA

The conditions of tender are the standard conditions of tender contained in Annex C of the Construction Industry Development Board Standard for Uniformity in Engineering and Construction Works Contracts, published in Government Gazette No. 42622 dated 8 August 2019.

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 the tender data and the standard conditions of tender.

Each item of data given below is cross-referenced to the clause in the standard conditions of tender to which it mainly applies.

Clause Number	Data
C.1.2	The Tender Documents consist of the following:
	(a) This Project Document , which contains the following:
	PART T1: TENDERING PROCEDURES T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data
	PART T2: RETURNABLE DOCUMENTS T2.1 List of Returnable Documents T2.2 Returnable Schedules
	PART C1: AGREEMENTS AND CONTRACT DATA C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Performance Guarantee C1.4 Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 C1.5 Retention Money Guarantee C1.6 Transfer of Rights
	PART C2: PRICING DATA C2.1 Pricing Assumptions C2.2 Bill of Quantities
	PART C3: SCOPE OF WORK C3.1 Standard Specifications C3.2 Project Specifications C3.3 Particular Specifications
	PART C4: SITE INFORMATION C4.1 Locality Plan C4.2 Example of Contract Signboard Details C4.3 Existing Services Report C4.4 Conditions on Site: Materials Information C4.5 Traffic Information C4.6 Any other relevant technical reports
	(b) Drawings (issued separately by the Employer's Agent).
	(c) 'General Conditions of Contract for Construction Works, Third Edition (2015)' issued by the South African Institution of Civil Engineering (abbreviated title 'General Conditions of Contract 2015' – 'GCC 2015'). This document is obtainable separately and Tenderers shall obtain their own copy.

Clause	Data	
Number	(d) 'Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard) (October 2020). This document is obtainable separately and Tenderers shall obtain their own copy.	
	(e) 'Occupational Health and Safety Act No. 85 of 1993', 'Occupational Health and Safety Amendment Act No. 181 of 1993', and the 'Construction Regulations, 2014' (Government Notice No. R. 489 published in Government Gazette No. 40883 of 2 June 2017,)'. These documents are obtainable separately and Tenderers shall obtain their own copies.	
	(f) 'Construction Industry Development Board Act No. 38 of 2000' as amended and the 'Regulations in terms of the Construction Industry Development Board Act No. 38 of 2000' (Government Notice No. R. 692 published in Government Gazette No. 26427 of 9 June 2004, as amended).	
	In addition, Tenderers are advised, in their own interest, to obtain their own copies of the relevant Acts, Regulations and Standards referred to in this document as they are essential for the Tenderer to become acquainted with the basics of construction management, the implementation of preferential construction procurement policies, and participation of targeted enterprises and labour.	
C.1.4	The Employer's Agent is:	
	Name of the firm: Ibhongo consulting (Pty) Ltd Contact person: Mr T. Zulu Telephone: 031 324 2200 Fax: 031 324 2222 E-mail: themba@ibhongo.co.za	
C.2.1	Only those tenderers who satisfy the following criteria are eligible to submit tenders.	
	(a) CIDB registration	
	Only those tenderers who are registered with the CIDB, at close of tender, in a contractor grading designation equal to or higher than 9, for a CE class of construction work, are eligible to have their tenders evaluated.	
	Only contractors whose CIDB status is "Active" at the time of evaluation will be considered for further evaluation. Contractors whose status is "Suspended" or "Expired" will not be considered for evaluation and will be disqualified from the bidding process.	
	Joint ventures are eligible to submit tenders provided that: (i) every member of the joint venture is registered with the CIDB; (ii) the lead partner has a contractor grading designation in the 9CE class of construction work; not lower than one level below the required grading designation in the class of construction work under consideration and possesses the required recognition status; and	
	(iii) the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than 9 for a CE class of construction work.	
	(b) Central Supplier Database	
	Tenderers, or in the event of a joint venture, each member of the joint venture, must be registered on the Central Supplier Database at the closing date for tender submissions. Tenders received from such tenderers who do not comply with this requirement, will be considered non-responsive.	
	Prospective suppliers should self-register on the CSD website www.csd.gov.za.	

Clause Number	Data		
	(c) Local production and content of goods (Returnable Schedule D - SBD 6.2)		
	Only locally produced goods or locally manufactured goods for construction meeting the minimum threshold for local production and content as stipulated in Returnable Schedule D - SBD 6.2 will be considered.		
C.2.7	This will be a non-compulsory virtual briefing meeting. It is recommended that the contractors perform a physical site visit prior to the closure of the bid. The arrangements and venue for the non-compulsory Clarification Meeting are:		
	Venue: Due to risk associated with COVID19 pandemic and National Lockdown, the briefing session will be held virtually via the MICROSOFT TEAMS application.		
	Date: Friday 24 February 2023 at 10H00 for (Log in time: 09H00 to 10H00); meeting link: https://bit.ly/ZNB00149		
	Contact person: Mr S. Sumo		
	Telephone: 031 324 2200 Fax: 031 324 2222		
	E-mail: simphiwe@ibhongo.co.za		
C.2.10	All Tenderers that are registered for Value Added Tax (VAT) with the South African Revenue Service (SARS) must include VAT in their tender offer.		
C.2.11	The tenderer shall not retype the tender document.		
	Any tender submitted using a document that has been retyped shall be considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.		
C.2.12	The requirements are as described in clause A2.1.4.2'ALTERNATIVE DESIGNS' of the 'COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard) (October 2020 edition)'.		
C.2.13	C.2.13.3 Tender offers shall be submitted as an original only. Under no circumstances whatsoever may the tender forms be retyped or redrafted. Photocopies of the original tender documentation may be used, but an original signature must appear on such photocopies.		
	C.2.13.5 The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are:		
	Location of Tender Box: Outside the Foyer, KZN Department of Transport		
	Physical Address: 172 Burger Street, Pietermaritzburg		
	Identification Details: Contract No. ZNB00149/00000/00/INF/20T		
	C.2.13.6 A two-envelope system will NOT be followed.		

Clause Number	Data	
C.2.15	The closing time for submission of Tender Offers is: 11:00 on Friday 28 March 2023	
	Telegraphic, telephonic, telex, facsimile, electronic, e-mail and late tende accepted.	ers will not be
C.2.16	The tender offer validity period is twenty-four (24) weeks, calculated from closure.	the date of bid
C.2.18	The tenderer must submit to the Employer the names of all management and supervisory staff that will be employed to supervise the labour-enhanced portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirement (refer to Returnable Schedule H).	
C.2.19	Access shall be provided for inspections and testing by personnel acting c Employer.	on behalf of the
C.2.23	The certificates as required in the Returnable Schedules and Forms must be p tender for each party to a consortium / joint venture.	rovided with the
C.3.4	The time and location for opening of the tender submissions are: Time: 11:00 Date: Friday 28 March 2023	
	Location / Venue: Acquisition Section, 'B' Block Boardroom,172 Burger Street, Pietermaritzburg, 3201	
C.3.5	A two-envelope system will NOT be followed.	
C.3.8.1	Determine, after opening and before detailed evaluation, whether each tender received: a) complies with the requirements of these Conditions of Tender, b) has been properly and fully completed and signed, and c) is responsive to the other requirements of the tender documents.	er offer properly
C3.11.1	The evaluation of tender offers will be based on administrative compliance, functionality, price and preference in accordance with the Preferential Procurement Regulations 2017, as amended.	
	(a) Functionality (Returnable Schedule O – Technical Proposal	
	The scope of work for this contract is classified in the following table.	
	Please mark appropriate:	YES / NO
	Simple/straightforward/routine work - where the tasks or activities are of a straightforward nature in terms of which inputs are relatively well known and outputs can be readily defined.	NO
	Complex work - characterised by requirements for higher levels of skills, greater resources or not well-defined inputs and outputs. (if this evaluation criteria is selected please include functionality)	NO
	Specialist work - requiring considerable innovation, creativity, and expertise or skill (or both) or work that has a high downstream impact. (if this evaluation criteria is selected please include functionality)	YES
	The functionality criteria and weighting for each of the sub-criteria on which Proposal submitted with Returnable Schedule O will be evaluated, is indicated table.	

ause ımber		Data
	This table is applicable to Complex /	Specialist work.
	Functionality Criteria	Weighting
	Key Personnel:	Contracts Manager (weight = 25):
	Qualifications	Must be professionally registered with ECSA and / or
	Projects Implementation Experience	SACPCMP (Pr Eng / Pr Tech Eng / Pr Techni / Pr CPM or Pr CM only)
	Construction Experience	Years of relevant experience - calculated post qualification: 10 years and above = 5 9 years = 4 8 years = 3 7 years = 2 6 years = 1 0-5 years = 0
		Construction Manager (Senior Site Agent) (weight = 20):
		LIC NQF 5 "Manage Labour-Intensive Construction Processes" or equivalent Quality Council for Trades and Occupations (QCTO) qualifications at NQF level 5 or 7.
		Years of relevant experience: 13 years and above = 5 11-12 years = 4 9-10 years = 3 7-8 years = 2 5-6 years = 1 0-4 years = 0
		Foreman / Supervisor (weight = 15):
		LIC NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes";
		Years of relevant experience: 5 years and above = 5 4 years = 4 3 years = 3 2 years = 2 1 years = 1 0 years = 0
		Score = 25(point/5) + 20(point/5) + 15(point/5)

Clause Number	Data	
	Tenderers Relevant Experience:	
	(Construction) Previous Similar Projects	List number of completed rehabilitation projects
	The evaluation will consider the nature of the reference projects, scope of	CONSTRUCTION EXPERIENCE (weight = 40):
	services provided, and Employer/Client completion certificate.	Appointment Letters and Final Approval Certificates/ Completion Certificates for 5 projects and above = 5
	(Appointment letters and Final Approval Certificates/ Completion Certificates to be provided with contact details of references.	Appointment Letters and Final Approval Certificates/ Completion Certificates for 4 projects and above = 4
	(Appointment letters and Final Approval Certificates/ Completion	Appointment Letters and Final Approval Certificates/ Completion Certificates for 3 projects = 3
	Certificates for projects completed older than 15 years will not be	Appointment Letters and Final Approval Certificates/ Completion Certificates for 2 projects = 2
	considered as proof of experience)	Appointment Letters and Final Approval Certificates/ Completion Certificates for 1 project = 1
		Appointment Letters and Final Approval Certificates/ Completion Certificates for 0 projects = 0
		Score = 40(point/5)
	TOTAL	Maximum score = 100
		Individual Score = weight(points/5)
		Maximum score = sum of all individual scores
		of the functionality score will qualify for further least 10% of this score must be from the Tenderers
	outside the employ of the bidding er enterprises will not be allowed. The personnel. The Department reserve to compliance. The Department must be personnel identified in the tender document	of the bidding enterprise or letter of intent for personnel atterprise to be included with CV. Bidding with multiple Department will disregard all experience of duplicated the right to assess the functionality ongoing to ensure the apprised immediately if there is any change to the ament. Failure to comply with this requirement shall lead ent must have equal or higher experience.
	(b) Price and preference	
	Tenders will be evaluated on price Procurement Regulations, 2017.	and preference in accordance with the Preferential
	Preference points must be claimed u with the tenderer's B-BBEE status level	sing Returnable Schedule D - SDB 6.1 in accordance el of contributor.
		evel Verification Certificate must comply with the E and be submitted as an attachment to the returnable
	Total Score for Price and Preference	<u>e</u>

Clause Number	Data	
Number	The points scored for a Tenderer in respect of Price will be added to the points scored in respect of Preference. Only the tender with the highest number of points may be selected, except in those instances permissible by legislation, practice notes or relevant policies.	
C.3.13	(e) The legal requirements for acceptance of the tender offer are:	
	(i) Tender Defaulters Register - the Tenderer or any of its principals is not listed on the register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector.	
	(ii) Abuse of the SCM System - the Tenderer has <u>not</u> abused the Employer's Supply Chain Management System and has <u>not</u> been given a written notice to the effect that he has failed to perform on any previous contract.	
	(iii) Declaration - the Tenderer has indicated and declared whether a spouse, child or parent of the Tenderer is in the service of the State.	
	(iv) Fraud and Corruption - the Employer is satisfied that the Tenderer or any of his principals have <u>not influenced</u> the tender offer and acceptance by the following criteria:	
	 having offered, promised or given a bribe or other gift or remuneration to any person in connection with the obtaining of this Contract; having acted in a fraudulent or corrupt manner in obtaining this Contract; having approached an officer or employee of the Employer or the Employer's Agent with the object of influencing the award of a Contract in the Tenderer's favour; having entered into any agreement or arrangement, whether legally binding or not, with any other person, firm or company to refrain from Tendering for this Contract or as to the amount of the Tender to be submitted by either party; or having disclosed to any other person, firm or company other than the Employer, the exact or approximate amount of his proposed Tender. 	
	The Employer may, in addition to using any other legal remedies, repudiate the Tender offer and acceptance and declare the Contract invalid should it have been concluded already.	
C.3.17	The number of paper copies of the signed contract to be provided by the Employer is one (1) .	

PART T2: RETURNABLE DOCUMENTS

T2.1 LIST OF RETURNABLE DOCUMENTS

The following schedules and forms are contained in this document and are to be properly completed as required:

- (a) Returnable Schedules in T2.2.
- (b) C1.1 Form of Offer and Acceptance, C1.1.1: Offer, on page C3.
- (c) Contract Specific Data Provided by the Contractor in C1.2.3.
- (d) Pricing Data in C2.2: Bill of Quantities.

T2.2 RETURNABLE SCHEDULES

Α	NON-COMPULSORY VIRTUAL BRIEFING SESSION	T18
В	RECORD OF ADDENDA TO TENDER DOCUMENTS	T19
С	COMPULSORY ENTERPRISE QUESTIONNAIRE	T20
D	STANDARD BIDDING DOCUMENTS	T21
	SBD 1: INVITATION TO BID	T21
	SBD 4: DECLARATION OF INTEREST	T24
	SBD 5: THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME	T27
	SBD 6.1: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017	T29
	SBD 6.2: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS	T36
Е	B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	T45
F	CERTIFICATE OF AUTHORITY FOR SIGNATORY	T46
G	CONSTRUCTION EXPERIENCE	T48
Н	KEY PERSONNEL	T49
l	CONSTRUCTION EQUIPMENT	T52
J	PROPOSED SUBCONTRACTORS	T53
K	PARTICIPATION IN JOB CREATION USING LOCAL LABOUR	T54
L	BIDDERS HEALTH AND SAFETY DECLARATION	T56
M	DEVIATIONS AND QUALIFICATIONS	T58
N	SCHEDULE OF ALTERNATIVE TENDERS	T59
0	TECHNICAL PROPOSAL	T60
Р	NOTICES TO TENDERERS REGARDING THE COMPLETION OF FORMS	T62
Q	OTHER	T63

NOTE: The Tenderer is required to complete each schedule and form listed above to the best of his ability as the evaluation of tenders and the eventual contract will be based on the information provided by the Tenderer. Failure of a Tenderer to complete the schedules and forms to the satisfaction of the Employer may lead to rejection on the grounds that the tender is non-responsive.

A. NON-COMPLUSORY VIRTUAL BRIEFING SESSION

Institution involved: KwaZulu-Natal Department of Transport

BID No.: ZNB00149/00000/00/HOD/INF/20/T

Service: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0,0 TO KM 10,0 IN ZULULAND

DISTRICT UNDER EMPANGENI REGION

All interested bidders are required to attend the non-compulsory virtual briefing session with the representatives of the Employer which will be held as per below instructions:

Due to risk associated with COVID19 pandemic and National Lockdown, the briefing session will be held virtually via the MICROSOFT TEAMS application.

It is the responsibility of the bidder to ensure that they have network connectivity and power to log into the meeting on time and check developments on the Department's website www.kzntransport.gov.za i.e. Addendums etc.

Date: 24 February 2023

Briefing time: Grade 9CE: 10H00 (Log in time: 09H00 to 10H00)

meeting log in link: https://bit.ly/ZNB00149

Procedure for accessing meeting:

- Click on link or copy and paste onto internet browser (Preferably Google Chrome or internet explorer)
- Enter your name and company details
- Enter meeting

Acceptable proof of attendance to the briefing session must be submitted with the tender document containing the following: (NB. Applicable only if the briefing session is compulsory.)

• Completion of the electronic attendance register your tender.

B. RECORD OF ADDENDA TO TENDER DOCUMENTS

The undersigned confirm that the following communications received from the Employer or his representative before the date of submission of this tender offer, amending the tender documents, have been considered in this tender offer. (Addenda can only be issued following approval from the Employer. The Employer's representative is not allowed to issue addenda to bidders without prior approval in terms of the SCM Delegations).

ADDENDUM NO.		DATE		TITLE OR	DETAILS
ed			Date		
ne			Position		
er			1		

Failure to complete, sign and date this form or failure to acknowledge receipt of each Addendum issued shall result in the tender being considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

C. 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: Nam	ne of enterprise:					
Section 2: VAT	registration number, if a	ıy:				
Section 3: cidb	registration number, if a	ny:				
Section 4: CSD	number:					
Section 5: Part	iculars of sole proprietors	s and partners in partnership	os:			
Name*	Ide	ntity number*	Personal income tax number*			
* Complete only if s	ole proprietor or partnership ar	nd attach separate page if more tha	an 3 partners			
Section 6: Part	iculars of companies and	close corporations				
Company registra	tion number:					
Close corporation	number:					
Tax reference nur	nber:					
Section 7: SBD requirement.	4 issued by National Trea	asury must be completed fo	or each tender and be attached as a tender			
Section 8: SBD requirement.	6 issued by National Trea	asury must be completed fo	or each tender and be attached as a tender			
		is duly authorised to do so on erers tax clearance status from	behalf of the enterprise: n the South African Revenue Services that it is			
in order;			ny partner, manager, director or other person,			
who wholly o	r partly exercises or may	exercise, control over the en	nterprise appears on the Register of Tender			
iii) confirms that r	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 or 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						
iv) 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			the tender being considered non-			

responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

D. STANDARD BIDDING DOCUMENTS

SECTION A INVITATION TO BID

SBD1

BID NUMBER: ZNB00149/0000/00/HOD/INF/20T	YOU ARE HEREB	SY INVIT	ED TO TENDER FOR REQUIRE	MENTS (OF TH	IE KWAZULI	U-NATAL I	DEPARTMENT O	F TRANSPORT
DESCRIPTION REGION THE BID BOX STUATED AT (STREET ADDRESS) Main Entrance Poyer Monday to Friday: 08:00 until 16:00 T12 Burger Street Under not circumstances must suppliers submit their Tender (orders) responses to the official whose name appears on the enquires. Under not circumstances must suppliers submit their Tender (orders) responses to the official whose name appears on the enquires. TECHNICAL ENQURIES MAY BE DIRECTED TO:								TIME:	
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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, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. IF THE BID WAS INVITED THROUGH A CLOSE QUOTATION PROCESS; WHERE SUPPLIERS WERE SOURCED FROM CSD USING THE COMMODITY PROCESS; SUPPLIERS WHO WERE NOT INVITED WILL NOT BE CONSIDERED.
- 1.5. USE OF OMISSION IN THE DOCUMENT IS PROHIBITED, ALL CORRECTIONS MUST BE INITIALLED BY TENDERR AND USE OF CORRECTION FLUID IS PROHIBITED.
- 1.6. FAILING TO COMPLY WITH THE ABOVE REQUIREMENTS WILL RESULT IN THE BID BEING NON-RESPONSIVE.
- 1.7. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT

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 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."
- 3. COMPLIANCE AND RETURNABLES: THE FOLLOWING RETURNABLE DOCUMENTS MUST RETURNED WITH THE TENDER DOCUMENT
- 3.1 SCM APPENDIX 1 INVITATION TO TENDER (SBD1 PART A)
- 3.2 SCM APPENDIX 2 TERMS AND CONDITIONS FOR BIDDING (SBD1 PART B)
- 3.3 SCM APPENDIX 3 OFFICIAL BRIEFING SESSION/SITE INSPECTION CERTIFICATE
- 3.4 SBD 4 DECLARATION OF INTEREST FORM
- 3.5 SBD 6.1 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017;
- 3.6 SBD 6.2 DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT TOGETHER WITH ANNEXURE C (COMPLETED IF APPLICABLE)

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

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

SBD 4 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:

CIDB OPEN TENDER: Tender Ver.2_01-08-2022: COTO

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.

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:

3 DECLARATION

[,	the	undersigned
(name)		in submitting the
accompanying bid, do he	ereby make the following	g statements that I certify to be true
and complete in every re	spect:	

- 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.
- 3.4 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.
- 3.5 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.
- 3.6 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

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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.

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 PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

Signature	Date
Position	 Name of bidder

Every question must be answered individually on this form, whether a relationship is present or not: Failure to do so will invalidate your tender/bid

SBD 5

This document must be signed and submitted together with your bid.

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 work 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

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to all bids:
 - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).
- 1.2 (a) The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the 90/10 preference point system shall be applicable.
- 1.3 Points for this bid shall be awarded for:
 - (a) Price; and
 - (b) B-BBEE Status Level of Contributor
- 1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
B-BBEE STATUS LEVEL OF CONTRIBUTOR	10
Total points for Price and B-BBEE must not exceed	100

- 1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. **DEFINITIONS**

- (a) "B-BBEE" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) "B-BBEE status level of contributor" means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) "bid" means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price tenders, advertised competitive bidding processes or proposals;
- (d) "Broad-Based Black Economic Empowerment Act" means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) "EME" means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

- (f) "functionality" means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents;
- (g) "prices" includes all applicable taxes less all unconditional discounts;
- (h) "proof of B-BBEE status level of contributor" means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- "QSE" means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis: **90/10**

$$Ps = 90 \left(1 - \frac{Pt - P\min}{P\min} \right)$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

Pmin = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

5.	BID DECLARATION

5.1	Bidders who claim	points in respect	of B-BBEE Status L	evel of Contribution	must complete the following:
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6.	B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1
	6.1 B-BBEE Status Level of Contributor: =(maximum of 10 points)
	(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.
7.	SUB-CONTRACTING
	7.1 Will any portion of the contract be sub-contracted?
	(Tick applicable box)
	YES NO
	7.1.1 If yes, indicate:
	i) What percentage of the contract will be subcontracted
	v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Programment Regulations 2017:

าร of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME	QSE
	V	V
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8.	DECLARATION WITH REGARD TO COMPANY/FIRM							
	8.1 Name of company/firm:							
	8.2 VAT registration number:							
	8.3 Compa	8.3 Company registration number:						
	8.4 TYPE (F COMPANY/ FIRM						
		Partnership/Joint Venture / Consortium One-person business/sole propriety Close corporation Company (Pty) Limited APPLICABLE BOX]						
	8.5 DESCR	BE PRINCIPAL BUSINESS ACTIVITIES						
	8.6 COMPA	8.6 COMPANY CLASSIFICATION						
	 Ticr	Manufacturer Supplier Professional service provider Other service providers, e.g. transporter, etc. APPLICABLE BOX						
	8.7 Total nu	mber of years the company/firm has been in business:						
	poin	e undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the bing certificate, qualifies the company/ firm for the preference(s) shown and I / we 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 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;						
	iv)	If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –						
		(a) disqualify the person from the bidding process;						
		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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES		
1		ATURE(S) OF BIDDERS(S)
2	DATE: ADDRESS	

I, the undersigned,

B-BBEE EXEMPTED AFFIDAVIT FOR EXEMPTED MICRO ENTERPRISES (ISSUED IN TERMS OF THE AMENDED CONSTRUCTION SECTOR CODE) (Gazette Vol. 630 No. 41287) Issued in terms of paragraph 3.6.2.4.1 (B)

Full name & Surname	
Identity number	

Hereby declare under oath as follows:

- 1. The contents of this statement are to the best of my knowledge a true reflection of the facts.
- 2. I am a member / director / owner of the following enterprise and am duly authorised to act on its behalf:

Enternaise Neme	1			
Enterprise Name				
Trading Name (If Applicable):				
Registration Number				
Enterprise Physical Address:				
Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):				
Nature of Business:	Pro	BEP Environment ofessional)	Contractor	Supplier
Definition of "Black People"	Amende means (a) (a)	ed by Act No 46 Africans, Colou who are citize or who became naturalisation- I. before 27 / II. on or after	e citizens of the Repu April 1994; or	a generic term which Africa by birth or descent; ublic of South Africa by would have been entitled to
Definition of "Black Designated Groups"	(a) (b) (c) (d)	attend an educational ins Black people Commission A Black people Code of Good issued under the	olack people not attending icational institution and no stitution; who are youth as defict of 1996; who are persons with ded Practice on employment he Employment Equity Act; ving in rural and under device.	
	, ,	•	ilitary Veterans Act 18 of 2	•

Construction Sector Affidavit

3. •	amended Codes of amended by Act Manager The Enterprise is Amended Codes Amended by Act Manager The Enterprise is 100 of the Amended 2003 as Amended Black Designated Black Designated Black Dis Black Under Black Under Black Ped	of Good Practice No 46 of 2013, of Good Practice No 46 of 2013, led Codes of Go d by Act No 46 of Group Owned of uth % = abled % = employed % =	% Black Cook issued und% Black Food Practice of 2013, % Breakdow% cook areas % =	% =%	of 2003 as Series 100 of the 3 of 2003 as Inded Code Series
	BEP		R1.8 million	1	
	Contractor		R3.0 millior	<u> </u>	
	Supplier		R3.0 millior	1	
Ĺ	If the turnover exceeds the applicable an Professional Regulator appointed by the		davit is no longer applicable	and an EME certificate must be obtained from a rating agency accredited by SANAS of	r when applicable a B-BBEE Verification
•	Based on the Fina	ancial Statemen	ts/Managem	ent Accounts and other information a	vailable on the
	latest financial year	ar-end of/_	/	_, (dd/mm/yyyy) the annual Total R	Revenue was
	R3,000,000.00 (3	Million Rands)	or less		
•	Please Confirm of	n the below table	e the B-BBE	E Level Contributor, by ticking the a	pplicable box.
100% Bla	ack Owned	Level One (135%	B-BBEE procui	rement recognition level)	
	51% Black Owned			rement recognition level)	
	80% Black Owned			rement recognition level)	
Less than	n 30% Black Owned	Level Five (80% E	3-BBEE procure	ement recognition level)	
4.		r the oath bindir	ng on my co	affidavit and I have no objection to tanscience and on the Owners of the I The sworn affidavit will be valid for months from the date signed by com	Enterprise, which I
				Deponent Signature:	
				Date:/	
<u> </u>					
Stamp					S-41 -
				Signature of Commissioner of C	Daths

FAILURE TO FULLY COMPLETE DATE AND SIGN THIS FORM WILL REUSLTS TO NON-AWARD OF PREFERENCE POINTS

SBD 6.2

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

```
LC = [1 - x / y] * 100
Where
```

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

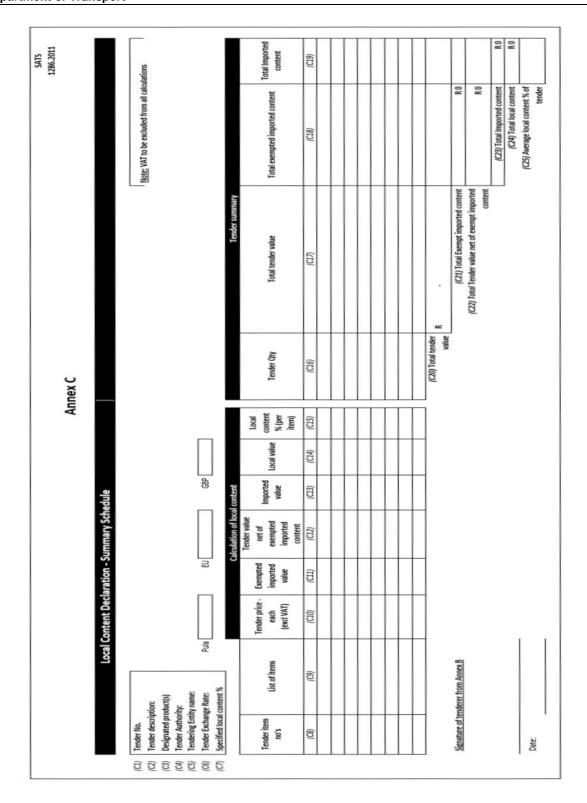
The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial development/ip.jsp at no cost.

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.
- 2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

NB: the following list must be completed if applicable and each item must refer to the BOQ reference number for ease of reference. Link for designated items https://kzntransport_gov_za/EYQdUwulrRBAltx4VOxRliABQQpZpdZ8Es2gEt46HyHlBw?e=ch3ErE

Description of services, works or goods	BOQ Item Number	Stipulated	d minimum threshold
Galvanized Wire Mesh	C1.4	4.2.11	100%
Protective Safety clothing	C1.	5.4	100%
Cement	C5.	4.10	100%
Steel	C3.5	3	100%
Provision of tools and apparel for the NYS	workers F5.0	03b	100%
Items measured by number (office furniture	e) C1.	4.3	85%
Warning signs,	C1.	5.7	100%
Permanent signs	C11	.6.1.9	100%

Annexures of SBD 6.2 Local Production and Content (Attach additional pages if more space is required)



Failure to complete, sign and date this form shall result in the tender being considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

					A	nnex D								SATS 1286.201
Tend	er No.]							1			
	er descripti gnated Prod								Note: VAT to be all calculations	excluded from				
	er Authorit ering Entity				_		_				. !			
Tend	er Exchang	e Rate:	Pula		EU		GBF							
A. E	empte	ed imported co	ontent			Forign	I	I	1					
	nder item no's	Description of im	ported content	Local supplier	Overseas Supplier	currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tend	er Qty	Exempted imported value
	(D7)	(D8	3)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D	17)	(D18)
										(D19)	Total exempt	imported	value	R (
												1		
B. I	mporte	d directly by t	he Tenderer			Forign				All locally		\parallel		
	nder item no's	Description of im	ported content	Unit of measure	Overseas Supplier	currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	incurred landing costs & duties	Total landed cost excl VAT	Tend	er Qty	Total imported valu
	(D20)	(D2	1)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D	30)	(D31)
										(D32) To	tal imported va	lue by te	derer	R
C. I	mporte	d by a 3rd part	ty and supplie	d to the Te	nderer		ı	1			1			
De	scription of	imported content	Unit of measure	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT		ntity	Total imported valu
		(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D	43)	(D44)
										(D45) Tot	al imported val	lue by 3rd	party	R
D. (Other fo	reign currenc	y payments											
	Туре	of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange								Local value of payments
		(D46)	(D47)	(D48)	(D49)	(D50)								(D51)
Siana	ature of ton	derer from Annex B					(DS	(2) Total of for	eign currency pay	ments declared	d by tenderer a	nd/or 3rd	party	
Jigilia	acare or ten	uciei iiuiii Ailliex B					(D53) Total o	f imported cont	ent & foreign cur	rency payment	s - (D32), (D45)	& (D52)	above	R O
				=										
Date:	:			=										

This form must be completed, signed and dated by the contractor and kept for a period of 5 years for audit purposes. Annexure D is not a returnable document.

Tender No.		Note: VAT to be excluded from	n all
Tender description: Designated products:		calculations	
Tender Authority: Tendering Entity name:			
rendering Littly Hame.			
	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	(E0) Total local product	s (Goods, Services and Works)	R O
		s (Goods, Services and Works)	
(E10)	(Tenderer's manpower cost)	L	R 0
(E11)	(Rental, depreciation & amortisation, utility costs,	consumables etc.)	R 0
(E12)	(Marketing, insurance, finance)	ing, interest etc.)	R 0
		(E13) Total local content	R 0

This form must be completed, signed and dated by the contractor and kept for a period of 5 years for audit purposes. Annexure E is not a returnable document.

3. Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

YES	NO	

3..1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency on the date of advertisement of the bid.

The relevant rates of exchange information are accessible on www.resbank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	_
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION (REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

PARTNERSHIP OR INDIVIDUAL)						
IN RESPECT OF BID NO.						
ISSUED BY: (Procurement Authority / Name of Institution) Province of KwaZulu-Natal, Department of Transport						
NB						
The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.						
2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on						
http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below. Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.						
I, the undersigned, (full names),						
do hereby declare, in my capacity as						
of(name of bidder entity), the						
following:						
(a) The facts contained herein are within my own personal knowledge.						
(b) I have satisfied myself that the goods/services/works to be delivered in terms of the above- specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011.						
(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:						
Bid price, excluding VAT (y)						
Imported content (x), as calculated in terms of SATS 1286:2011						
Stipulated minimum threshold for local content (paragraph 3 above)						
Local content %, as calculated in terms of SATS 1286:2011						

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

E. B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE

Notes to tenderer:

- 1. The tenderer shall submit proof of B-BBEE Status Level of Contributor by submitting a copy of a valid B-BBEE Verification Certificate issued in accordance with the Amended Construction Sector Code published in Notice 931 of 2017 of Government Gazette No. 41287 of 1 December 2017.
- 2. The certificate shall:
 - (i) have been issued by a verification agency accredited by the South African National Accreditation System (SANAS); or
 - (ii) in the case of an Exempted Micro Enterprise (EME) with a total annual revenue of R3 million and less, be in the form of a sworn affidavit, in respect of their ownership and annual turnover, for the year ending not earlier than 12 (twelve) months prior to the tender closing date; and
 - (iii) have a date of issue not earlier than 12 (twelve) months prior to the tender closing date.
- 3. A consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level Verification Certificate. In addition, the consolidated B-BBEE Status Level Verification Certificate for unincorporated joint ventures shall only be applicable to this project (Tender No. to be indicated on the certificate).
- 4. An enterprise will qualify as an Exempted Micro Enterprise (EME) if it has a total annual revenue of R3 million or less, and is deemed to have the following B-BBEE Status in accordance with their black ownership levels:
 - (i) if less than 30% Black Owned then "Level Five Contributor";
 - (ii) if at least 30% Black Owned but less than 51% Black Owned then "Level Four Contributor":
 - (iii) if at least 51% Black Owned but less than 100% Black Owned, then "Level Two Contributor"; and
 - (iv) if 100% Black Owned then "Level One Contributor".
- 5. Tenderers are advised that any misrepresentation in the affidavits is a criminal offence.

F. CERTIFICATE OF AUTHORITY FOR SIGNATORY

The Tenderer must indicate the enterprise status by ticking the appropriate box hereunder.

(1)	(II)	(III)	(IV)	(V)	
SOLE PROPRIETOR	CLOSE CORPORATION	PARTNERSHIP	COMPANY	JOINT VENTUR CONSORTIUI	
				Incorporated	
				Unincorporated	

Note:

The following document must be attached to this form according to the status of the enterprise, in the form of a resolution authorising the signatory to sign all documents and any contract resulting therefrom on behalf of the enterprise, and **such resolution shall include a specimen signature of the signatory.**

Cooperative: 'Resolution of the Members' Close Corporation: 'Resolution of the Members'

Company: 'Resolution of the Board' signed by the chairperson

Joint Venture / Consortium: 'Resolution/agreement passed/reached' signed by the authorised

representatives of the enterprises

MEMBERS RESOLUTION

CONTRACT NO. ZNB		
Close Corporation / Company / Partnership /	· ·	ne: Registration
Number:	RESO	
DIRECTORS OF THE COMPANY etc RESO		201101101 1112
	, is authorised to make app	olications on behalf of
the Close Corporation / Company / Partnersh relating to the business (which is not necessal have access to webpage for the business.	nip / Trust /Sole proprietor or sole trader	for: any documentation
Signature(s) for Close Corporation / Compan (sole member still must sign this resolution)	y / Partnership / Trust/ Sole proprietor o	r sole trader.
Signature of members:		
Name	Signature	Date
1		
2		.
3		
4		
5		<u> </u>
6		<u>.</u>
Specimen signature of the signatory:	<u>.</u>	

Failure to complete, sign and date the relevant certificate(s) set out hereafter or failure to provide the certificate(s) in the form of a resolution as described above shall result in the tender being considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

G. **CONSTRUCTION EXPERIENCE**

The following is a statement of work of similar nature recently successfully executed by myself / ourselves:

EMPLOYER: CONTACT PERSON AND TELEPHONE NUMBER	EMPLOYER'S AGENT: CONTACT PERSON AND TELEPHONE NUMBER	NATURE OF WORK	VALUE OF WORK (inclusive of VAT)	DATE COMPLETED OR EXPECTED TO BE COMPLETED
Attach additional page	es if more space is requi	ired		

SIGNATURE:	DATE:
(Of person authorised to sign on behalf of the Tenderer)	

H. KEY PERSONNEL

H1. KEY PERSONNEL - MANAGEMENT

The Tenderer must insert in the spaces provided below a list of the key personnel to be employed in the management of the construction of the Works, together with a resume of their experience with particular reference to the construction of similar Works.

The Tenderer shall attach the curriculum vitae of the listed key management personnel to the page included below for this purpose.

DESIGNATION	NAME	PROJECT TYPE	VALUE OF WORK	YEAR COMPLETED
CONTRACTS MANAGER				
CONSTRUCTION MANAGER				
FOREMAN/ SUPERVISOR				

SIGNATURE:	DATE:
(Of person authorised to sign on behalf of the Tenderer)	

Attach additional pages if more space is required

H2. KEY PERSONNEL - LABOUR ENHANCED ACTIVITIES

Contractors shall employ in labour-enhanced works only those supervisory and management staff that have completed the required Skills Programme in terms of Appendix C of the "Guidelines for the implementation of labour-enhanced infrastructure projects under the Expanded Public Works Programme (EPWP) Third Edition 2015":

- Foremen / Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes";
- Site Agent / Construction Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent Quality Council for Trades and Occupations (QCTO) qualifications at NQF level 5 or 7.

Tenderers' attention is drawn to the required minimum supervisor to worker ratio for this project stated in clause F2.3 of Part F of the Particular Specifications.

The Tenderer must insert in the spaces provided below the relevant details of the personnel to be employed in the construction of the Works possessing the required qualifications in the supervision or management of LIC projects. A copy of the relevant qualification certificate for each such person shall be attached to the next page below.

DESIGNATION	NAME	NAME OF TRAINING INSTITUTION	QUALIFICATION OBTAINED IN THE SUPERVISION OR MANAGEMENT OF LIC PROJECTS	YEAR QUALIFICATION OBTAINED

SIGNATURE: DATE:

(Of person authorised to sign on behalf of the Tenderer)

Attach additional pages if more space is required

CURRICULUM VITAE OF KEY PERSONNEL - MANAGEMENT

Refer to H1.

Curriculum Vitae of key management personnel to be attached to this page.

and

QUALIFICATIONS OF KEY PERSONNEL – LABOUR ENHANCED ACTIVITIES

Refer to H2.

Relevant qualification certificates to be attached to this page for each person possessing the required qualifications in the supervision or management of LIC projects.

I. CONSTRUCTION EQUIPMENT

The following are lists of major construction equipment that I / we presently own or will acquire for this contract if my / our tender is accepted.

(a) Details of major construction equipment owned by me / us:

DESCRIPTION (type, size and capacity)	QUANTITY	YEAR OF MANUFACTURE
Attack additional name if many analysis naminal	1	

Attach additional pages if more space is required

(b) Details of major construction equipment that will be acquired:

DESCRIPTION (type size and constitut)	QUANTITY	HOW ACQUIRED	
DESCRIPTION (type, size and capacity)	QUANTITY	HIRE / BUY	SOURCE

Attach additional pages if more space is required

SIGNATURE:	DATE:
(Of person authorised to sign on behalf of the Tenderer)	

J. PROPOSED SUBCONTRACTORS

I/We hereby notify you that it is my/our intention to employ the following subcontractors for work under this contract. If I/we am/are awarded a contract I/we agree that this notification does not change the requirement for me/us to submit the names of proposed subcontractors in accordance with the requirements of the contract for such appointments.

Acceptance of this tender shall not be construed as approval of any or all of the listed subcontractors. Should any or all of the subcontractors not be approved subsequent to the acceptance of the tender, it shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed below being approved by the Employer.

NAME OF SUBCONTRACTOR	CSD NUMBER	DESIGNATED GROUP AND OWNERSHIP %	B-BBEE LEVEL	NATURE OF WORK	PERCENTAGE TO BE SUBCONTRACTED

Attach additional pages if more space is required.

NB: The subcontractors listed above will not contribute to the achiever	ments of the objectives specified in Section C3.3 Part G of this tender document.
SIGNATURE:	DATE:
(Of person authorised to sign on behalf of the Tenderer)	

K. PARTICIPATION IN JOB CREATION USING LOCAL LABOUR

The Tenderer shall be required to participate in job creation (employment of local labour) by executing various portions of the Works using local labour (unskilled or semi-skilled), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project). Proof of citizenship or work visa may be audited during the contract period.

The creation of one job shall mean the employment, for any period of time, of one such unskilled or semi-skilled labourer from the local community.

The Tenderer shall note the requirements for Job Creation Reporting for EPWP as set out in Part F: Expanded Public Works Programme (EPWP) of the project specifications.

The number of jobs to be created using such local labour is inclusive of the local labour employed to execute various portions of the Works by both the main Contractor and any subcontractors, including the small development subcontractors in terms of Part G: Small Contractor Development of the project specifications.

The number of jobs to be created using such local labour shall include for a minimum percentage allocation to the following individual targeted groups:

- 60% Women;
- 55% Youth; and
- 2% Disabled.

The minimum required content of such local labour for this project shall be calculated as follows:

Minimum required content of such local labour (%)

(100 x amount spent on wages for such local labour (excluding VAT))
 (Subtotal 1* (excluding contingencies, contract price adjustment and VAT))

*Subtotal 1 is obtained from the Tender Summary under C2.2 Bill of Quantities

The minimum required content of such local labour for this project shall be 7.2 %.

For purposes of completing the table on the next page containing the Tenderer's declaration with respect to participation in job creation using local labour, the value of Subtotal 1* (excluding contingencies, contract price adjustment and VAT) which is obtained from the Tender Summary under C2.2 Bill of Quantities, shall be used.

TENDERER'S DECLARATION WITH RESPECT TO PARTICIPATION IN JOB CREATION USING LOCAL LABOUR:

The Tenderer shall complete the table below reflecting the anticipated local labour force to be employed on this contract, including such local labour employed by subcontractors.

I/We hereby tender to participate in job creation through the employment of local labour by creating the following number of jobs using unskilled or semi-skilled labourers, recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project), including for a minimum allocation of 60% Women, 55% Youth and 2% Disabled:

Local labour comprising unskilled or semi-skilled labourers recruited from the local community	Anticipated number of jobs to be created	Total number of person-days anticipated	Wage rate per person-day (excluding VAT) (Rand)	Total wage cost (excluding VAT) (Rand)	
Contractor's local labour content					
Subcontractors' local labour content					
Total antic	Total anticipated wage cost of local labour content (excluding VAT)				
Subtotal 1* (excl	R				
Hence anticipated local labour content expressed as a percentage of Subtotal 1* (excluding contingencies, contract price adjustment and VAT)) Note: Should this percentage not equal or exceed the specified minimum percentage, the Tender will be considered non-responsive in terms of subclause C.3.8 of the Conditions of Tender and such a tender shall be rejected.				%	
Specified minimum local labour content				7.2%	

A penalty shall be applied to any shortfall in the local labour content achieved when measured against the specified minimum local labour content, as set out in Part F: Expanded Public Works Programme (EPWP) of the project specifications. The penalty shall not apply to shortfalls in the allocations to the individual target groups (i.e., Women/Youth/Disabled), only to shortfalls in the total local labour content achieved.

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, confirms that he/she understands the conditions for such participation and confirms that the tender satisfies the conditions for participation in job creation through the employment of local labour.

Name:	
Duly authorized to sign on behalf of:	
SIGNATURE:	DATE:
(Of person authorised to sign on behalf of the Tenderer)	

Failure to complete, sign and date this form shall result in the tender being considered non-responsive and rejected in terms of clause C.3.8 of the Conditions of Tender.

L. BIDDERS HEALTH AND SAFETY DECLARATION

In terms of Regulation 5(1)(h) of the OHSA 1993 Construction Regulations 2014 (referred to as 'the Regulations' hereafter), a Contractor may only be appointed to perform construction work if the Employer is satisfied that the Contractor has the necessary competencies and resources to carry out the work safely in accordance with the Occupational Health and Safety Act No 85 of 1993, as amended and the OHSA 1993 Construction Regulations 2014.

To that effect a person duly authorised by the Tenderer must complete and sign the declaration hereafter in detail.

Declaration by Tenderer

- 1. I, the undersigned, hereby declare and confirm that I am fully conversant with the Occupational Health and Safety Act No. 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No. 181 of 1993), and the OHSA 1993 Construction Regulations 2014.
- 2. I hereby declare that my company has the competence and the necessary resources to safely carry out the construction work under this contract in compliance with the Construction Regulations and the Employer's Health and Safety Specification.

(* = delete whatever is not applicable)

- Details of resources I propose:
 - Note: Competent resources shall include safety personnel such as the construction manager, construction health and safety officer and construction supervisor as defined in Regulation 8, and competent persons as defined in the OHSA 1993 Construction Regulations 2014, as applicable to this contract.
 - (a) Details of the competent and qualified key persons from my company's own resources, who will form part of the contract team:

NAME OF COMPETENT PERSONS	POSITION TO BE FILLED BY COMPETENT PERSONS

	(b)	to be trained to achieve the necessary competency:		
		(i)	By whom will training be provided?	
		(ii)	When will training be undertaken?	
		(iii)	List the positions to be filled by persons to be trained or hired:	
	(c)		ails of competent resources to be appointed as subcontractors if competent persons cannot supplied from own company:	
		Nar	ne of proposed subcontractor:	
		Qua	alifications or details of competency of the subcontractor:	
5.	the c	ontra danc	undertake, if my tender is accepted, to provide, before commencement of the works under ct, a suitable, sufficiently documented and coherent site-specific Health and Safety Plan in se with Regulation 7(1)(a) of the Construction Regulations, which plan shall be subject to by the Employer.	
6.	Safet and perso	y Sp will a onnel	that copies of my company's approved Health and Safety Plan, the Employer's Health and ecification as well as the OHSA 1993 Construction Regulations 2014 will be provided on site at all times be available for inspection by the Contractor's personnel, the Employer's the Employer's Agent, Construction Health and Safety Agent, visitors, and officials and of the Department of Labour.	
7.	sched meas pena	dule sures Ities	confirm that adequate provision has been made in my tendered rates and prices in the of quantities to cover the cost of all resources, actions, training and all health and safety envisaged in the OHSA 1993 Construction Regulations 2014, and that I will be liable for any that may be applied in terms of the said Regulations (Regulation 33) as a result of ing or failing to comply with the provisions of the Act and the Regulations.	
8.	mear	that , and	at my failure to complete and execute this declaration to the satisfaction of the Employer will I am unable to comply with the requirements of the OHSA 1993 Construction Regulations I accept that my tender will be prejudiced and may be rejected at the discretion of the	
SIGN	ATUR	E:	DATE:	
(Of pe	erson a	autho	prised to sign on behalf of the Tenderer)	

М. **DEVIATIONS AND QUALIFICATIONS**

Should the Tenderer wish to make any deviation from or any qualification to the Special Conditions of Contract, Specifications, Bill of Quantities, or Drawings, or should he wish to qualify the tender in any way, he shall indicate the proposals clearly hereunder or alternatively on photocopies of the original tender documentation which shall be attached to this page.

Please note: The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permissible in terms of the Conditions of Tender. Please also refer to Returnable Schedule N.

PAGE	DEVIATION OR QUALIFICATION, INCLUDING REFERENCE CLAUSE OR ITEM NUMBER
	PAGE

SIGNATURE:	DATE:

(Of person authorised to sign on behalf of the Tenderer)

N. SCHEDULE OF ALTERNATIVE TENDERS

The attention of tenderers is specifically drawn to clause C.2.12 Alternative tender offers of Annex C Standard Conditions of Tender and to clause C.2.12 of section T1.2 TENDER DATA in this project document.

An alternative tender offer or design shall be considered only if the main tender offer has also been submitted in accordance with the requirements of clauses C.2.12.1 and C.2.12.2 of Annex C and such main tender offer is the winning tender as stated in clause C.2.12.3 of Annex C.

The requirements for alternative offers are as described in clause A2.1.4.2'ALTERNATIVE DESIGNS' of the 'COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard) (October 2020 edition)'.

Such alternative offers shall be described, measured and priced in sufficient detail to enable the Employer to evaluate the alternative. The Tenderer shall set out the proposal clearly hereunder or alternatively on photocopies of the original tender documentation which shall be attached to this page.

SECTION	PAGE	ALTERNATIVE OFFER, INCLUDING REFERENCE CLAUSE OR ITEM NUMBER
SIGNATURE:		DATE:
(Of person auth	orised to si	gn on behalf of the Tenderer)

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O. TECHNICAL PROPOSAL

The tenderer is required to submit a technical proposal which covers the following criteria.

O1. Experience of key personnel

The experience of assigned staff member in relation to the scope of work will be evaluated from three different points of view:

- 1) General experience (total duration of professional activity), level of education and training and positions held of each discipline specific team leader.
- 2) The education, training, skills and experience of the Assigned Staff in the specific sector, field, subject, etc which is directly linked to the scope of work.
- 3) The key staff members' / experts' knowledge of issues which the tenderer considers pertinent to the project e.g. local conditions, affected communities, legislation, techniques etc.

A CV of the Lead project manager/Engineer, contract manager, construction manager design civil engineers/specialists and foreman of not more than 3 pages each should be attached to this schedule:

Each CV should be structured under the following headings:

- 1 Personal particulars
 - name
 - date and place of birth
 - place (s) of tertiary education and dates associated therewith
 - professional awards
- Qualifications (degrees, diplomas, grades of membership of professional societies and professional registrations)
- 3 Skills
- 4 Name of current employer and position in enterprise
- 5 Overview of post graduate / diploma experience (year, organization and position)
- 6 Outline of recent assignments / experience that has a bearing on the scope of work

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

Signed	Da	ate
Name	Positi	

O2. Relevant experience

List number of completed Road upgrade and bridge structure projects.

The evaluation will consider the nature of the reference projects, scope of services provided, and Employer/Client completion certificate.

Appointment letters including Final Approval Certificates/ Completion Certificates not older than 15 years per project to be provided with contact details of references.

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

Signed:	Date:
Name:	Position:

P. NOTICES TO TENDERERS REGARDING THE COMPLETION OF FORMS

PLEASE NOTE THAT THIS TENDER IS SUBJECT TO TREASURY REGULATIONS 16A ISSUED IN TERMS OF THE PUBLIC FINANCE MANAGEMENT ACT, 1999, THE KWAZULU-NATAL SUPPLY CHAIN MANAGEMENT POLICY FRAMEWORK AND THE GENERAL CONDITIONS OF CONTRACT.

- 1. Unless inconsistent with or expressly indicated otherwise by the context, the singular shall include the plural and vice versa and with words importing the masculine gender shall include the feminine and the neuter.
- Under no circumstances whatsoever may the tender forms be retyped or redrafted. Photocopies of the original tender documentation may be used, but an original signature must appear on such photocopies.
- 3. The tenderer is advised to check the number of pages and to satisfy himself that none are missing or duplicated.
- 4. Tender submitted must be complete in all respects.
- 5. Tender shall be lodged at the address indicated not later than the closing time specified for their receipt, and in accordance with the directives in the tender documents.
- 6. Each tender shall be addressed in accordance with the directives in the tender documents and shall be lodged in a separate sealed envelope, with the name and address of the tenderer, the tender number and closing date indicated on the envelope. The envelope shall not contain documents relating to any tender other than that shown on the envelope. If this provision is not complied with, such tender may be rejected as being invalid.
- 7. All tenders received in sealed envelopes with the relevant tender numbers on the envelopes are kept unopened in safe custody until the closing time of the tender. Where, however, a tender is received open, it shall be sealed. If it is received without a tender number on the envelope, it shall be opened, the tender number ascertained, the envelope sealed, and the tender number written on the envelope.
- 8. A specific box is provided for the receipt of tenders, and no tender found in any other box or elsewhere after the closing date and time of tender will be considered.
- 9. No tender sent through the post will be considered if it is received after the closing date and time stipulated in the tender documentation, and proof of posting will not be accepted as proof of delivery.
- 10. No tender submitted by telefax, telegraphic or other electronic means will be considered.
- 11. Tender documents must not be included in packages containing samples. Such tenders may be rejected as being invalid.
- 12. Any alteration made by the tenderer must be initialled. If not initialled the tenderer may be disqualified.
- 13. Use of correcting fluid is prohibited
- 14. Tenders documents will be opened in public as soon as practicable after the closing time of tender.
- 15. Where practical, prices are made public at the time of opening tender documents.

Q. OTHER

a) Rights to Award

- KwaZulu-Natal Department of Transport reserves the right to call for presentations from shortlisted suppliers or Reserves the Right to accept bid In Whole or In Part."
- Not to make any award in this bid or accept any tender submitted,
- Award the project to more than one (1) tenderer for the same activity
- Request further technical information from any tenderer after the closing date,
- Verify information and documentation of the tenderer(s),
- Not to accept any of the tender proposals submitted,
- To withdraw or amend any of the tender conditions by notice in writing to all tenderer prior to closing of the bid and post award, and
- If an incorrect award has been made to remedy the matter in any lawful manner it may deem fit.

b) Price Negotiation at quotation stage.

KwaZulu-Natal Department of Transport reserves the right to negotiate with the shortlisted tenderer prior and/or post award.

The terms and conditions for negotiations will be communicated to the shortlisted tenderers prior to invitation to negotiations.

The negotiation terms and conditions may include presentations and/or site visits. This phase is meant to ensure the conditions of tender and projects will be implementable.

KwaZulu-Natal Department of Transport supports the spirit of economic empowerment and recognizes that real empowerment can only be achieved through individuals and businesses conducting themselves in accordance with the Constitution and in an honest, fair, equitable, transparent and legally compliant manner. Against this background the KwaZulu-Natal Department of Transport does not support any form of fronting.

CONTRACT

PART C1: AGREEMENTS AND CONTRACT DATA

PART C2: PRICING DATA

PART C3: SCOPE OF WORK

PART C4: SITE INFORMATION

CONTRACT

TABLE OF CONTENTS	Page	Colour	
PART C1: AGREEMENTS AND CONTRACT DATA			
C1.1: FORM OF OFFER AND ACCEPTANCE	C3	Yellow	
C1.1.1: OFFER	C3	Yellow	
C1.1.2: ACCEPTANCE	C4	Yellow	
C1.1.3: SCHEDULE OF DEVIATIONS	C5	Yellow	
C1.2: CONTRACT DATA	C7	Yellow	
C1.2.1: CONDITIONS OF CONTRACT	C7	Yellow	
C1.2.2: DATA PROVIDED BY THE EMPLOYER	C10	Yellow	
C1.2.3: DATA PROVIDED BY THE CONTRACTOR	C15	Yellow	
C1.3: PERFORMANCE GUARANTEE	C16	White	
C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993	C19	White	
C1.5: RETENTION MONEY GUARANTEE	C21	White	
C1.6: TRANSFER OF RIGHTS	C23	White	
PART C2: PRICING DATA			
C2.1: PRICING ASSUMPTIONS	C24	Yellow	
C2.2: BILL OF QUANTITIES	C29	Yellow	
PART C3: SCOPE OF WORK			
TABLE OF CONTENTS	C59	Blue	
C3.1: STANDARD SPECIFICATIONS	C60	Blue	
C3.2: PROJECT SPECIFICATIONS	C60	Blue	
C3.3: PARTICULAR SPECIFICATIONS	C61	Blue	
PART C4: SITE INFORMATION			
C4.1: LOCALITY PLAN	C217	Green	
C4.2: EXAMPLE OF CONTRACT SIGNBOARD DETAILS	C218	Green	
C4.3: EXISTING SERVICES REPORT	C220	Green	
C4.4: CONDITIONS ON SITE: MATERIALS INFORMATION	C222	Green	
C4.5: TRAFFIC INFORMATION	C229	Green	
C4.6: ANY OTHER RELEVANT TECHNICAL REPORTS	C232	Green	
ANNEXURE A: GUIDELINES FOR CONSTRUCTION AND			
MAINTENANCE PROJECTS DURING COVID-19 LOCKDOWN	C234	White	

PART C1: AGREEMENTS AND CONTRACT DATA

C1.1: FORM OF OFFER AND ACCEPTANCE

C1.1.1: OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

CONTRACT NO. ZNB00149/00000/00/INF/20/T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0,0 TO KM 10,0 IN THE ZULULAND DISTRICT UNDER EMPANGENI REGION

The Tenderer, identified in the Offer signature block below, 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 Conditions of Tender.

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 Contractor 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.

The offered total of the prices inclusive of Value Added Tax is:

Amour	nt in Words		
R	(in figures).		
Accept stated	offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and cance and returning one copy of this document to the Tenderer before the end of the period of validity in the Tender Data, whereupon the Tenderer becomes the party named as the Contractor in the ions of Contract identified in the Contract Data.		
Signat	ure: (of person authorised to sign the tender)		
Name:	Name: (of signatory in capitals)		
Capac	ity: (of signatory)		
Name	of Tenderer: (organisation)		
	Address:		
•			
-	Telephone number: E-mail:		
Witnes	ss:		
;	Signature:		
I	Name: (in capitals)		
Date: .			

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[Failure of a Tenderer to sign this form will invalidate the tender]

This form is to be completed by the Employer only

C1.1.2: ACCEPTANCE

By signing this part of the Form of Offer and Acceptance, the Employer, identified below, accepts the Tenderer's 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 Tenderer's 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 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 the schedules, forms, drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto 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 authorised representatives of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this Agreement, including the Schedule of Deviations (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 these 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 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.

Signature		
Name: (in	capitals)	i
Capacity:		
Name of E	Employer: (organisation)	
Ac	ddress:	
Witness:	Signature: Name: (in capitals)	
Date:		

This form is to be completed by the Employer and the successful tenderer only, upon acceptance of the successful tenderer's offer

C1.1.3: SCHEDULE OF DEVIATIONS

The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Tender Data and the Conditions of Tender.

A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreement reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

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.

Any change or addition to the tender documents arising from the above agreement 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 authorised 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

FOR THE TENDERER:

the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change 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.

Signature:	
Name:	
Capacity:	
Tenderer: (/	Name and address of organisation)
	· · · · · · · · · · · · · · · · · · ·
Witness:	
Signature:	
Name:	
Date:	
FOR THE E	MPLOYER:
Signature:	
Name:	
Capacity:	
Employer:	Name and address of organisation)
Witness:	
Signature:	
Name:	
Date:	

C1.2: CONTRACT DATA

C1.2.1: CONDITIONS OF CONTRACT

C1.2.1.1 GENERAL CONDITIONS OF CONTRACT

This Contract will be based on the 'General Conditions of Contract for Construction Works, Third Edition (2015)', issued by the South African Institution of Civil Engineering (abbreviated title: 'GCC 2015').

It is agreed that the only variations from the GCC 2015 are those set out hereafter under "C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT".

C1.2.1.2 SPECIAL CONDITIONS OF CONTRACT

C1.2.1.2.1 GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, the GCC 2015 to the extent specified below, and shall take precedence and shall govern.

The clauses of the Special Conditions of Contract hereafter are numbered "SCC" followed in each case by the number of the applicable clause or subclause in the GCC 2015, and the applicable heading, or (where a new special condition that has no relation to the existing clauses is introduced) by a number that follows after the last clause number in the GCC 2015, and an appropriate heading.

C1.2.1.2.2 AMENDMENTS TO THE GCC 2015

SCC 1.1 Definitions

SCC 1.1.1.14: delete "Commencement Date" in the definition and substitute "date of commencement of the Works".

Add the following to the end of Clause 1.1:

- "SCC 1.1.1.35 "Construction Manager" means the person approved of in writing by the Employer's Agent, as the Contractor's representative on Site.
- SCC 1.1.1.36 "Targeted Enterprise" means an enterprise as defined in Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Work.
- SCC 1.1.1.37 "Targeted Labour" means labour as defined in Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Work."

SCC 4.1.1 Extent of Contractor's obligations

Add the following new paragraphs to the end of Clause 4.1.1:

"If the Contractor fails to achieve the monetary value of the contract participation goal stated in the Contract Data for local labour content in terms of Part F: Expanded Public Works Programme of section C3.3 Particular Specifications in Part C3: Scope of Work, the Contractor shall be liable to the Employer for a sum calculated in accordance with the Contract Data and the aforementioned Scope of Work as a penalty for such underachievement.

If the Contractor fails to achieve the monetary value of the contract participation goal stated in the Contract Data for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Work, the Contractor shall be liable to the Employer for a sum calculated in accordance with the Contract Data and the aforementioned Scope of

Work as a penalty for such underachievement."

SCC 4.4.2 Subcontractor to be approved

Add the following to Clause 4.4.2:

"The Contractor shall comply with the subcontracting restrictions stated in the Contract Data."

SCC 4.10.1 Engagement of employees

Add the following to Clause 4.10.1:

"The contractor shall pay rates and wages, and observe conditions of labour, which are not lower than those established for the trade or industry where the work is carried out, as stated in the Contract Data."

SCC 5.3.1 Commencement of the Works

Delete the first sentence of Clause 5.3.1 and substitute the following:

"The Employer's Agent shall give the Contractor not less than 7 days' notice of the date of commencement of the Works on which date the Contractor is instructed to commence carrying out the Works, save as may be otherwise provided in the Contract, or be legally or physically impossible. The date of commencement of the Works shall be within the period after the Commencement Date stated in the Contract Data."

SCC 5.3.3 Time to instruct commencement of the Works

Delete Clause 5.3.3.

SCC 5.14.4 Certification of Completion

Insert the following in the first sentence after the words "has been duly completed,":

"and the Contractor has submitted the information stated in the Contract Data,".

SCC 5.14.6 Occupation by the Employer

Add the following to Clause 5.14.6:

"The use of any completed roadway or parts of the Works, whether for unhindered use by the public or for accommodation of traffic, while other parts are being constructed, shall not constitute occupation of the Works by the Employer."

SCC 6.2.1 Delivery of security

In the last two lines of Clause 6.2.1, delete the words "the type of security for the due performance of the Contract, as selected in the Contract Data" and replace them with the words "a fixed performance guarantee as security for the due performance of the Contract in accordance with the Contract Data Part A: Data Provided by the Employer".

Delete the entirety of Clause 6.2.2 and replace it with the following:

"SCC 6.2.2 Contractor failing to provide security

If the Contractor fails to provide the required fixed performance guarantee within the time period stated in the Contract Data, or if the performance guarantee shall differ substantially from the pro forma, it shall legally be deemed that the Contractor has selected a security of ten per cent retention of the value of the Works without limiting the Employer's right to terminate the Contract in terms of Clause 9.2."

SCC 6.2.3 Validity of performance guarantee

Delete the entirety of the first sentence of Clause 6.2.3 and replace it with the following:

"The Contractor shall ensure that the performance guarantee remains valid and enforceable until the Certificate of Completion is issued."

SCC 6.10.4 Delivery, dissatisfaction with and payment of payment certificate

Delete "within 28 days" in the third sentence and substitute "within 30 days".

SCC 6.10.8 Contractor's completion statement

Delete "within 28 days" in the third sentence and substitute "within 30 days".

SCC 6.10.9 Final Payment Certificate

Delete "within 28 days" in the second sentence and substitute "within 30 days".

SCC 10.1.5 Employer's Agent's ruling on Contractor's Claim

Delete "within 28 days" in the first sentence and in Clause 10.1.5.1, and substitute "within 56 days".

C1.2.2: DATA PROVIDED BY THE EMPLOYER

The following contract specific data are applicable to this contract.

CLAUSE	CONTRACT SPECIFIC DA	TA PROVIDED BY THE EMPLOYER	
1.	GENERAL		
1.1.1.13	The Defects Liability Period is 12 months.		
SCC 1.1.1.14	The time for achieving Practical Completion is 18 months from the date of commencement of the Works, including non-working days and special non-working days.		
1.1.1.26	Pricing Strategy: The Contract is to be a Re-measurement Contract.		
1.1.1.15	Name of Employer: Province of Department: Department of Transport	KwaZulu-Natal represented by Head of	
1.2.1.2	Address of Employer:		
	Physical:	Postal:	
	172 Burger Street Pietermaritzburg 3201	Private Bag X9043 Pietermaritzburg 3200	
	E-mail: E-mail: Mzokhanyayo .Nkabini	@kzntransport.gov.za	
	Telephone No: 033 355 8600	Fax No: 033 345 7537	
1.1.1.16	Name of Employer's Agent: Ibhongo Consulting (Pty) Ltd		
1.2.1.2	Address of Employer's Agent:		
	Physical:	Postal:	
	Durban F 4001 I	Post Net Suite 279 Private Bag X10 Musgrave 4062	
	E-mail: Themba@ibhongo.co.za		
	Telephone No: 031 324 2200	Fax No: 031 324 2222	
3.	EMPLOYER'S AGENT		
3.2.3	The Employer's Agent is required to obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses:		
	 SCC 5.3.1: Give the Contractor notice of the commencement date of the Works. 6.3.1: Order any work as a Variation Order. 6.3.1: Order any work which requires the utilisation of the provision for contingencies in the Contract Sum. 6.3.1: Order any work which requires the Contract Price to exceed the Contract Sum. 10.1.5: Ruling on a Contractor's claim. 		

CLAUSE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
4.	CONTRACTOR'S GENERAL OBLIGATIONS
SCC 4.1.1	The contract participation goal for local labour content is <u>7.2%.</u>
	The penalty for failing to achieve the monetary value of the above target set by the Employer for local labour content in terms of Part F: Expanded Public Works Programme of section C3.3 Particular Specifications in Part C3: Scope of Work, is 5% of the monetary value by which the achieved monetary value falls short of the target monetary value.
	The contract participation goal for Targeted Enterprises is 30%.
	The penalty for failing to achieve the monetary value of the above target set by the Employer for contract participation by Targeted Enterprises in terms of Part G: Small Contractor Development of section C3.3 Particular Specifications in Part C3: Scope of Work, is 5% of the monetary value by which the achieved monetary value falls short of the target monetary value.
SCC 4.4.2	In accordance with regulation 12. (3) of the Preferential Procurement Regulations, 2017, the Contractor may not subcontract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level of contributor than the Contractor, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.
SCC 4.10.1	The Contractor and his subcontractors shall be registered with the Bargaining Council for the Civil Engineering Industry and comply with the wage rates and conditions of labour agreed by the Bargaining Council for the Civil Engineering Industry, except where a specific industry publishes its own wage rates and conditions of labour.
	The wage rates and conditions of labour employed under the Expanded Public Works Programme, shall comply with the Ministerial Determination 4, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No. R347 of 4 May 2012.
5.	TIME AND RELATED MATTERS
SCC 5.3.1 and 5.3.2	The date of commencement of the Works shall be within 28 days, or 56 days if a construction work permit is required, after the Commencement Date.
	The following documentation shall be submitted within 14 days of the Commencement Date by the Contractor before commencing to carry out the Works: (i) Health and Safety Plan (refer to Clause 4.3); (ii) Form C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993' to be signed by the Contractor and the Employer (refer to Clause 4.3); (iii) Proof of registration and good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993 (Act No. 130 of 1993) (refer to Clause 4.3); (iv) Initial Programme (refer to Clause 5.6); (v) Security (refer to Clause 6.2); and (vi) Insurance (refer to Clause 8.6); (vii) Any other requirements – specify

CLAUSE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
	and if the Employer is required to apply for a construction work permit to perform construction work in terms of regulation 3(1) of the Construction Regulations 2014, the following documentation shall also be submitted: (viii) Temporary works designer's appointment duties in terms of Regulation 6(2) as have been agreed upon plus proof of registration with ECSA [CR 3(5)(b)(iii) read with CR 5(1)(e) and CR 6(2)]; (ix) Evidence that the Principal contractor has made adequate provision for the cost of Health and Safety, i.e., bill of quantities [CR 3(5)(b)(iii) read with CR 5(1)(g)]; and (x) Evidence that the Principal contractor has the necessary competencies to carry out construction work safely, namely, schedule of activities, relevant appointments and proofs of competency [CR 5(1)(h)]. (xi) Any other requirements – specify
5.8.1	The non-working days are Sundays.
	The special non-working days are: (i) the statutory public holidays in terms of the Public Holidays Act; (ii) the foreseeable election days declared as a statutory public holiday; and (iii) the annual year-end shutdown period as recommended by the Bargaining Council for the Civil Engineering Industry.
5.13.1	The penalty for failing to complete the Works is 0,05% of the Contract Sum per day, up to a maximum limit of twenty-five thousand rand per day (R25 000,00 per day).
5.14.1	The requirements for achieving Practical Completion are as stated in General Conditions of Contract 2015.
SCC 5.14.4	The Contractor shall submit the following:
	 (i) evidence that the local labour has been paid, and that the Targeted Enterprise subcontractors have received all amounts due in terms of their respective subcontract agreements; and (ii) the survey and materials information which the Employer's Agent requires to complete the as-built drawings and records.
5.16.3	The latent defects period is 10 years.
6.	PAYMENT AND RELATED MATTERS
SCC 6.2.1	The security to be provided by the Contractor shall be:
	Fixed Performance Guarantee of 8% of the first One Million Rand plus 3,5% of the balance of the Contract Sum.
6.5.1.2.3	The percentage allowance to cover overhead charges is 10%.
6.8.2	The value of payment certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following data.

CLAUSE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
	The values of the coefficients for calculating the Contract Price Adjustment Factor are:
	Road works – upgrade (Schedules A, D, F and G):
	a = 0.2 $b = 0.35$ $c = 0.35$ $d = 0.1$
	"L", "P", "M" and "F" are defined as follows:
	"L" is the "Labour Index" and shall be the Consumer Price Index for "Geographic Indices > CPI per province > KwaZulu-Natal" as published in Table A of the Statistical Release P0141 of Statistics South Africa.
	"P" is the "Construction Equipment Index" and shall be the Construction Materials Price Index for "Plant and equipment" as published in Table 4 of the Statistical Release P0151.1 of Statistics South Africa.
	"M" is the "Materials Index" and shall be the Construction Materials Price Index as published in Table 6 of the Statistical Release P0151.1 of Statistics South Africa for:
	Road works (Schedules A, D, F and G): "Civil engineering material – roads, general (excluding bitumen)"
	"F" is the "Fuel Index" and shall be the Producer Price Index for "Coke, petroleum, chemical, rubber and plastic products > Coal and petroleum products > Diesel" as published in Table 1 of the Statistical Release P0142.1 of Statistics South Africa.
	The base month is the month preceding the month of tender closure.
	Any index calculated by means of a linking factor between an old and new index, shall be rounded to one decimal place.
6.8.3	Price adjustments for variations in the cost of bitumen as a special material are allowed.
	Only the net bitumen content of asphalt and bituminous products shall be subject to variations in cost, and no account shall be taken of transport, emulsifiers, diluents or modifiers that may be supplied ex refinery or added later.
6.10.1.5	The percentage advance on Plant and materials not yet built into the Permanent Works is 80%.
6.10.3	The percentage retention on the amounts due to the Contractor is 10%.
	The limit of retention money is 5% of the first One Million Rand plus 1,6% of the balance of the Contract Sum excluding contingencies, contract price adjustment, and VAT.
	A retention guarantee in lieu of a cash retention is permitted.

CLAUSE	CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
8.	RISKS AND RELATED MATTERS
8.6.1.1.2	The value of Plant and materials supplied by the Employer to be included in the insurance sum is <u>nil</u> .
8.6.1.1.3	The amount to cover professional fees for repairing or reinstatement of damage to the Works to be included in the insurance sum is <u>nil</u> .
8.6.1.2	Special Risks Insurance issued by SASRIA is required.
8.6.1.3	The limit of indemnity for liability insurance is R10 000 000,00 (ten million Rand only) for any single liability claim. Liability insurance shall include spread of fire risk.
10.	CLAIMS AND DISPUTES
10.5.2	Disputes shall be referred to ad-hoc adjudication.
10.5.3	The number of Adjudication Board members to be appointed shall be one.
10.8.1	Unresolved disputes shall be determined by court proceedings.
	DATA WITH REFERENCE TO C3.3 PARTICULAR SPECIFICATIONS
PART G	SMALL CONTRACTOR DEVELOPMENT
G2.9	The target area for local labour is eDumbe Local Municipalities.
	The target area for Targeted Enterprises is Zululand District Municipality.

C1.2.3: DATA PROVIDED BY THE CONTRACTOR

The following contract specific data are applicable to this contract.

CLAUSE	CONTRACT SPECIFIC D	ATA PR	OVIDED BY THE CONTRACTOR
1.	GENERAL		
1.1.1.9	Name of Contractor:		
1.2.1.2	Address of Contractor:		
	Physical:		Postal:
6.	PAYMENT AND RELATED MAT	TERS	
6.8.3	The tenderer shall complete the table below with respect to each of the special materials listed. This information shall be used to calculate the variation in cost of the special materials. The rates and prices for the special materials for the base month which is the month preceding the month of tender closure, shall exclude VAT but shall include all other obligatory taxes and levies. The tenderer shall append to this page a letter from the supplier confirming the supply price for the net bitumen content of asphalt and bituminous products. A change of supplier due to circumstances beyond the control of the Contractor may be considered, subject to the submission of supporting documentation to the Employer's Agent for valuation to calculate the difference between the rate or price of the special material entered in the table below and the equivalent rate or price actually paid by the Contractor, and for approval.		
	SPECIAL MATERIALS <u>Bitumen</u> types:	UNIT	RATE OR PRICE FOR THE BASE MONTH
	70/100 penetration grade bitumen	ton	
	Signed on behalf of the Tenderer:		

C1.3: PERFORMANCE GUARANTEE

PRO FORMA

PERFORMANCE GUARANTEE

For use with the General Conditions of Contract for Construction Works, Third Edition (2015).

1. GUARANTOR DETAILS AND DEFINITIONS
"Guarantor" means:
Physical address:
"Employer" means:
"Contractor" means:
"Employer's Agent" 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: or any other later date set by the

2. CONTRACT DETAILS

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

3. GUARANTOR'S LIABILITY

- 3.1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 3.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 3.3 The Employer's Agent 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.

4. CONDITIONS APPLICABLE TO THIS PERFORMANCE GUARANTEE

- 4.1 The Guarantor hereby acknowledges that:
- 4.1.1 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.
- 4.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 4.2 Subject to the Guarantor's maximum liability referred to in 3.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.2.1 to 4.2.3:
- 4.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent 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 4.2.2;
- 4.2.2 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 4.2.1 and the sum certified has still not been paid;
- 4.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 4.2.
- 4.3 Subject to the Guarantor's maximum liability referred to in 3.1, 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:
- 4.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 4.3; or
- 4.3.2 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 4.3; and
- 4.3.3 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.
- 4.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.2 and 4.3 shall not exceed the Guarantor's maximum liability in terms of 3.1.
- 4.5 Where the Guarantor has made payment in terms of 4.3, 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.
- 4.6 Payment by the Guarantor in terms of 4.2 or 4.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 4.7 Payment by the Guarantor in terms of 4.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 4.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider 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.

- 4.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 4.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 3.2, 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.
- 4.11 This Performance Guarantee, with the required demand notices in terms of 4.2 or 4.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 4.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' 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
Witness signatory (1)
Witness signatory (2)

C1.4: AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993

THIS AGREEMENT is made between The Province of KwaZulu-Natal represented by Head of Department: Department of Transport (hereinafter called the EMPLOYER) of the one part, herein represented by:
in his capacity as:
AND:
(hereinafter called the CONTRACTOR) of the other part, herein represented by:
in his capacity as:
duly authorised to sign on behalf of the Contractor.

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

CONTRACT NO. ZNB00149/00000/00/INF/20/T: THE REHABILITATION OF MAIN ROAD P34-5: BETWEEN KM 0,0 TO KM 10,0 IN THE ZULULAND DISTRICT UNDER EMPANGENI REGION

for the construction, completion and maintenance of the works;

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

NOW THEREFORE the parties agree as follows:

- 1. The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.
- 2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
- 3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the EMPLOYER'S AGENT from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
- 4. The CONTRACTOR agrees that any duly authorised officials 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 more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by the CONTRACTOR, or to take such steps the EMPLOYER may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

5. 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 agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at	for and on behalf of the EMPLOYER
on this the	day of
SIGNATURE:	
NAME AND SUR	NAME:
CAPACITY:	
WITNESSES:	1
2	
Thus signed at	for and on behalf of the CONTRACTOR
on this the	day of20
SIGNATURE:	
NAME AND SUR	NAME:
CAPACITY:	
WITNESSES:	1
2	·

C1.5: RETENTION MONEY GUARANTEE

PRO FORMA

RETENTION MONEY GUARANTEE

THE HEAD: TRANSPORT PROVINCE OF KWAZULU-NATAL PRIVATE BAG X9043 PIETERMARITZBURG 3200

CONTRACT NO	FOR
ISSUED TO: the PROVINCE OF referred to as "the Employer")	KWAZULU-NATAL, represented by HEAD: TRANSPORT (hereinafter
ON BEHALF OF:	(hereinafter referred to as "the Contractor")
In connection with	
CONTRACT NO. ZNB	(hereinafter referred to as "the Contract")
, ,	Contractor have agreed that the Contractor may provide a guarantee in tention monies provided for under the Contract;
	igned, undertake, in accordance with the following provisions, to pay the ployer may, from time to time, demand from us.
1. Each demand by the Employer	shall be in writing signed by the Employer and delivered to us at
	shall in writing notify to the Employer and shall be accompanied by a e 2, signed by the Employer's Agent as such in terms of the Contract.

- 2. The Employer's Agent's certificate referred to in Clause 1 shall certify
 - (a) that he is the Employer's Agent in terms of the Contract,
 - (b) that the Contractor is in breach of his obligations under the Contract, and
 - (c) that the amount demanded, which amount the certificate shall specify,
 - (i) does not exceed the amount of retention monies which, but for this guarantee, would have been retained by the Employer in terms of the Contract at the date of the certificate, less the aggregate of the amounts of retention money actually retained by the Employer and the amounts previously paid by us to the Employer in terms hereof, and
 - (ii) does not exceed a genuine estimate of the cost to the Employer of having the breach referred to in paragraph (b) remedied less the aggregate of any amounts withheld by the Employer from payments due the Contractor in terms of the Contract by reason of the breach referred to, and any amount in retention money actually held by the Employer save to the extent that the same had been deducted from any previous demand in terms hereof.
- 3. We shall within 28 days after our receipt of a demand complying with the provisions of Clauses 1 and 2 make payment to the Employer of the amount demanded at 172 Burger Street, Pietermaritzburg or at such other address as the Employer shall in writing notify us.
- 4. Subject to compliance with the provisions thereof, our liability to make the payments herein referred to shall be unconditional and shall not be affected nor diminished by any disputes, claims or counterclaims between the Employer and the Contractor.

5.	Our aggregate liability under this guarantee is limited to R
6.	This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by the Employer, becomes payable to the Contractor.
7.	This guarantee is not transferable and must be produced for endorsement if any part payment is made and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 6, whichever is the earlier.
Sig	ned in the presence of the witnesses named hereunder:
At .	for and on behalf of
on	this day of
Sig	nature:
Ca	pacity:
Ado	dress:
As	Witnesses:
	1
	2Name in Block Letters

C1.6: TRANSFER OF RIGHTS

TRANSFER OF RIGHTS AND			sful Tende	erer only)	
Claim for Plant and material	s on sit	e, Payment Ce	rtificate N	No Da	ate:
Contract No:		For (con	tract title)		
I, the undersigned (name of si	gnatory))			in my capacity as
		of (name of	Contract	or)	
	d to the	Plant and ma	iterials, fo	r which evid	and assign all the Contractor's ence of bona fide ownership is
Insofar as the Contractor reta passes to the Employer by co				lls and goods	s, the right of ownership thereof
reason of the Contractor's s	equestra ayment	ation or liquida for materials or	ition or o	f any defect be made by t	the said Plant and materials by in the Contractor's title to the he Employer until such time as I and materials.
	person	on behalf of th	e Employ	er for the Pl	or receiving payment from the ant and materials as Plant and
	adequat	ely against all r	isks and		under this Transfer of Rights and sured until they are built into or
This certificate of Transfer of table.	of Right	s applies only	to the Pla	ant and mate	erials as listed in the following
DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT	SUPPLIER
TOTAL VALUE OF PLANT A	ND MA	TERIALS]
Signed by:for and on behalf of the Contra					Date:
Witnessed by:					
	accompa	any the Contrac	ctor's clair	n for paymen	of of payment by the Contractor at for Plant and materials on site 015.

PART C2: PRICING DATA

C2.1 PRICING ASSUMPTIONS

1. GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specifications) and the Drawings.

2. DESCRIPTION OF ITEMS IN THE SCHEDULE

The Bill of Quantities has been drawn up generally in accordance with the relevant provisions of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. and the Particular Specifications, read together with the relevant clauses of the amendments and additions contained in the Project Specifications and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

The item numbers appearing in the Bill of Quantities refer to the corresponding item numbers in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. Item numbers prefixed by the letter PS refer to items of payment described in Part B Amendments to the Standard Specifications.

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 specifications.

Quantity: The number of units of work for each item.

Rate: The payment per unit of measurement at which the Tenderer tenders to do the work.

Amount: The product of the quantity and the rate tendered for an item.

Lump Sum: An amount tendered for an item, the extent of which is described in the Bill of

Quantities, the specifications or elsewhere, but the quantity of work of which is not

measured in any units.

3. QUANTITIES REFLECTED IN THE BILL OF QUANTITIES

The quantities given in the Bill of Quantities are estimates only and are subject to re-measure during the execution of the work. The quantities finally accepted and certified for payment, and not the quantities given in the Bill of Quantities, shall be used to determine payments to the Contractor. The Contractor shall obtain the Employer's Agent's detailed instructions for all work before ordering any materials or executing work or making arrangements for it. The quantities of material or work stated in the Bill of Quantities shall not be regarded as authorisation for the Contractor to order material or to execute work.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020, the Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste. The validity of the

contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

4. PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made in accordance with Clause 6.6 of the General Conditions of Contract 2015. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted by the Employer in the "Amount" column of the Bill of Quantities and in the Summary of the Bill of Quantities unless so ordered or authorised in writing by the Employer before closure of tenders. Any unauthorised changes made by the Tenderer to provisional items in the Bill of Quantities, or to the provisional percentages and sums in the Summary of the Bill of Quantities, at the Employer's discretion, may invalidate the Tenderer's offer or may be treated as arithmetical errors and the provisional items and percentages corrected without change to the Contract Sum.

5. PRICING OF THE BILL OF QUANTITIES

The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all costs and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based. The rates and lump sums shall be comprehensive in accordance with Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

Each item shall be priced and extended to the "Amount" column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Tenderer omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

All items for which terminology such as "inclusive" or "not applicable" have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

Should the Tenderer group a number of items together and tender one lump sum for such group of items, this single lump sum shall apply to that group of items and not to each individual item.

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

The Tenderer shall fill in rates for all items where the words "rate only" appear in the "Amount" column. The provisions of subclause C1.1.3.6 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 shall apply to rate only items. "Rate Only" items have been included where:

- (a) an alternative item or material is contemplated:
- (b) variations of specified components in the make-up of a pay item may be expected; and
- (c) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For "Rate Only" items, no quantities are given in the "Quantity" column, but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall, however, note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as imbalanced.

Reasonable compensation will be received where no pay item appears in respect of work required in terms of the Contract which is not covered in any other pay item.

All rates and amounts quoted in the Bill of Quantities shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities. Note that fractions of a cent in all rates shall be omitted.

6. CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

7. INTERIM PAYMENTS

Unless otherwise specified, progress payments in Interim Certificates, referred to in Clause 6.10 of the General Conditions of Contract 2015, in respect of "sum" items in the Bill of Quantities shall be by means of interim progress instalments assessed by the Employer's Agent and based on the measure in which the work actually carried out relates to the extent of the work to be executed by the Contractor.

Notwithstanding any custom to the contrary, the work as executed will be measured for payment in accordance with the methods described in the contract documents under the various items of payment.

Attention is directed to the provisions of Clause C1.1.2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 regarding the measurement of quantities for payment. Except where specified otherwise, the nett measurements or mass of the finished work in place shall be taken for payment, but any quantity of work in excess of that prescribed shall be excluded.

8. ITEMS SCHEDULED FOR CONSTRUCTION USING LABOUR ENHANCED METHODS

Those parts of the Works to be constructed using labour enhanced methods are numbered with the specific COTO, Draft Standard (DS), October 2020 Specifications items in the Bill of Quantities.

9. UNITS OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units. The following abbreviations are used in the Bill of Quantities:

mm	= millimetre	m³.km	= cubic metre kilometre	Prov sun	n= provisional sum
m	= metre	I	= litre	kPa	= kilopascal
km	= kilometre	kl	= kilolitre	MPa	= megapascal
km.pass	= kilometre pass	kg	= kilogram	MN	= meganewton
m^2	= square metre	t	= ton (1 000 kg)	t.km	= ton kilometre
m².pass	= square metre pass	No	= number	h	= hour
ha	= hectare	%	= percent	dia	= diameter
m^3	= cubic metre	PC sum	= prime cost sum	Sum	= lump sum
kW	= kilowatt	MN.m	= meganewton metre		

10. CONSISTENCY OF RATES

In order to ensure that payments certified by the Employer's Agent are reasonably consistent with the market value of the work done, and that variations in quantities do not distort the contract valuation, the rates, prices and amounts tendered in the Bill of Quantities are required to be in balance.

A tender will be considered out of balance if:

(i) the combined, extended total tendered for the item:

C1.3.1 The contractor's general obligations:

C1.3.1.1 Fixed obligations

C1.3.1.3 Time-related obligations

exceeds a maximum of 15% of the Contract Sum (excluding contingencies, contract price adjustment and VAT).

(ii) the rate, price or amount tendered <u>for any other item</u> differs by more than 20 (twenty) percent from the <u>average</u> of the rates, prices or amounts <u>for the same item</u> as tendered by those tenderers who submitted the lowest five responsive tender offers (or as tendered by all the responsive tenderers if there are less than five responsive tenderers).

Any such out of balance tender may be rejected if, after three (3) working days of having been given written notice by the Employer to adjust those rates or lump sums which are unreasonable or out of balance, the Tenderer fails to make the necessary satisfactory adjustments. These adjustments in rectification will be such that increases are balanced by decreases, leaving the tender offer unchanged.

C2.2 BILL OF QUANTITIES

	Page
BILL OF QUANTITIES	C29
TENDER SUMMARY	C56

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	IT C
C1.2	GENERAL REQUIREMENTS AND PAYMENT					IX .	
C1.2.1	Environmental Management						
C1.2.1.1	Monitoring of compliance with and reporting on the EMP		Month	18			
C1.2.1.2	Dedicated environmental officer		Month	18			
C1.2.2	Programming and Reporting						
C1.2.2.3	Submission of Scheme 2 Initial Programme		L/Sum	1			
C1.2.2.4	Submission of Scheme 2 full Programme		L/Sum	1			
C1.2.2.5	Reviewing and updating a Scheme 2 Programme every month		Month	18			
C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Document		Month	18			
C1.2.3	Routine and maintenance of existing public roads within the site of works or other public roads outside the site of works which are used as detour						
C1.2.3.1	Grass cutting		ha	5			
C1.2.3.2	Drain cleaning		km	3			
C1.2.3.3	Cleaning out culverts		m³	100			
C1.2.3.4	Collection of rubbish / litter		km	10			
C1.2.3.11	Other road maintenance work ordered by the Engineer		P/Sum	1	200 000	200 000	00
C1.2.3.12	Handling cost, profit and all other charges in respect of item C1.2.3.11		%	200 000			
C1.2.4	Stakeholder liaison		Month	18			
C1.2.5	Safety						
C1.2.5.1	Health and safety plan		L/Sum	1			
C1.2.5.2	Implementation of health and safety plan		Month	18			
TOTAL CA	ARRIED FORWARD TO NEXT PAGE 30						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	IT C
C1.2	GENERAL REQUIREMENTS AND					K	
	PAYMENT BROUGHT FORWARD FROM C29						
C1.2.6	Work adjacent to properties						
C1.2.6.1	Survey of adjacent properties		No	100			
C1.2.6.2	Preventive and/or mitigation measures		P/Sum	1	2 500 000	2 500 000	
C1.2.6.3	Handling cost, profit and all other charges in respect of item C1.2.6.2		%	2 500 000			
C1.2.8	Dayworks						
C1.2.8.1	Personnel						
(a)	Unskilled labourer		hr	3 000			
(c)	Skilled labourer		hr	1 000			
C1.2.8.2	Construction Equipment (specify size and/or model number)						
(a)	Motor grader		hr	40			
(b)	Vibratory roller		hr	40			
(d)	Front end loader backhoe		hr	1000			
(h)	Other equipment (generator & porker)		hr	500			
C1.2.8.3	Vehicles (specify size)						
(b)	Flatbed truck		km	3 600			
(c)	Dump Truck		km	600			
C1.2.8.4	Materials						
	(a) Procurement of material		P/Sum	1	300 000	300 000	00
	(b) Contractor's handling cost and profit and all other charges in respect of item C1.2.8.4(a)		%	300 000			
TOTAL CAI							

ITEM		DESCRIPTION	LI	UNIT	QTY	RATE	AMOUI	
C1.2	GENERAL		ND				R	С
	PAYMENT							
	BRO	UGHT FORWARD FROM C3	<u>1</u>		<u> </u>			
PSC1.2.10	Community P	articipation						
	a) Cost for &CLO)	community participation (P	PLC	P/Sum	1	550 000	550 000	00
	(b) Contracto all other charg	r's handling cost and profit a ges in respect of item C1.2.10	and (a)	%	550 000			
TOTAL CA	RRIED FORW	ARD TO SUMMARY						

CHAPTER 1.3

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	IT C
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS					, ,	
C1.3.1	The Contractor's general obligations						
C1.3.1.1	Fixed obligations		L/Sum	1			
C1.3.1.2	Value-related obligations		L/Sum	1			
C1.3.1.3	Time-related obligations		Month	18			
C1.3.2	Contract sign boards		m²	11.75			
TOTAL C	ARRIED FORWARD TO SUMMARY						
TOTAL C	ANNIED FORWARD TO SUMMART						
						<u> </u>	

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN	
	Description					R	С
C1.4	FACILITIES FOR THE ENGINEER						
	0#						
C1.4.1.1	Offices and conference room		m²	110			
C1.4.1.6	Car ports		No	6			
C1.4.1.7	Ablution unit (VIP flushing)		No	4			
C1.4.1.9	Kitchen unit (equipment as specified)		No	1			
C1.4.2	Items measured by area						
C1.4.2.9	White boards		m²	8			
C1.4.2.11	Galvanised wire mesh storeroom gate with a padlock		m²	1 000			
C1.4.3	Items measured by number						
C1.4.3.1	Office swivel chair		No	6			
C1.4.3.2	Office chair		No	20			
C1.4.3.3	Office desk with 3 drawers (at least one lockable drawer)		No	6			
C1.4.3.8	Conference table		No	2			
C1.4.3.11	General purpose steel cabinet with shelves		No	2			
C1.4.3.13	220/250-volt power outlet plug point		No	12			
C1.4.3.15	Single 1 500 mm, 58-watt fluorescent tube ceiling light		No	10			
C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type		No	3			
TOTAL CA	ARRIED FORWARD TO C33						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	IT C
C1.4	FACILITIES FOR THE ENGINEER						
	BROUGHT FORWARD FROM C33						
C1.4.3.24	Air-conditioning unit		No	6			
C1.4.3.27	Wastepaper basket		No	6			
C1.4.3.28	UPS / Voltage stabiliser		No	2			
C1.4.3.29	A3 / A4 colour printer, copier, scanner		No	1			
C1.4.3.30	A4 colour printer, copier, scanner		No	1			
C1.4.3.31	Rain gauge		No	2			
C1.4.3.32	Minimum / maximum atmospheric temperature gauge		No	2			
C1.4.3.33	Digital thermometer		No	2			
C1.4.3.35	3,0 m aluminium straight edge complete with two measuring wedges		No	2			
C1.4.3.36	Measuring wheel		No	1			
C1.4.3.37	First aid kit		No	1			
C1.4.4	Prime cost items		No	20			
C1.4.4.5	The provision of server, internet connectivity and WIFI data for Engineer's site staff		P/Sum	1	100 000	100 000	00
C1.4.4.6	Handling cost and profit in respect of item C1.4.4.5		%	100 000			
C1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner		P/Sum	1	150 000	150 000	00
C1.4.4.8	Handling cost and profit in respect of item C1.4.4.7		%	150 000			
C1.4.4.9	The provision of a complete 220/250-volt double phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connection, meters, etc.		PC/Sum	1	1 000 000	1 000 000	00
C1.4.4.10	Handling cost and profit in respect of item C1.4.4.9		%	1 000 000			
TOTAL CA							

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	IT C
C1.4	FACILITIES FOR THE ENGINEER BROUGHT FORWARD FROM C34					K	•
C1.4.5	Services at site offices, laboratories and site accommodation						
C1.4.5.1	Fixed costs		L/Sum	1			
C1.4.5.2	Running costs		Month	18			
C1.4.6	Office Staff						
C1.4.6.2	Technical assistant		Month	18			
C1.4.7	Site inspection transport						
C1.4.7.1	Provision of a bus, mini-bus or combi van for site inspection purposes (specify type and size of vehicle)		Per/day	18			
C1.4.7.2	Travel on site		km	2 200			
C1.4.8	Site security measures for the Engineer's facilities						
C1.4.8.1	Supply and installation of all required security measures at the Engineer's site offices and laboratories		L/Sum	1			
C1.4.8.2	Provision of security guards / watchmen and an armed response service at the Engineer's site offices and laboratories		Month	18			
TOTAL CA	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOU	
C1.5	ACCOMMODATION OF TRAFFIC			<u> </u>		R	С
C1.5.2	Accommodating traffic and maintenance deviation		Month	18			
C1.5.3	Liaison with traffic authorities		Month	18			
C1.5.5	Maintenance of temporary deviations						
C1.5.5.10	Watering of temporary deviations and existing roads used as detours		kl	500			
C1.5.5.11	Other road maintenance work ordered by the Engineer		Prov Sum	1	300 000	300 000	00
C1.5.5.12	Handling cost, profit and all other charges in respect of item C1.5.5.11		%	300 000			
C1.5.7 C1.5.7.1	Temporary traffic control facilities Delineators including mounting bases and ballast:						
	(a) Single sided, reversible left or right (900mm)	LI	No	200			
	(b) Double sided, reversible left or right (900mm)	LI	No	1 000			
	(c) Traffic cones, minimum height 750 mm	LI	No	300			
C1.5.7.3	Flagmen	LI	man-shift	2 640			
C1.5.7.4	Traffic controllers	LI	man-shift	2 640			
C1.5.7.5	Provision of illuminated traffic signs						
	(c) Illuminated road sign - R & TR series (600mm diameter)	LI	No	12			
	(d) Illuminated road sign - TW series	LI	No	20			
	(e) Mobile variable message sign with speed	LI	No	2			
	(f) Mobile variable message sign with speed	Month	Month	18			
TOTAL CA	ARRIED FORWARD TO C37						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	С
C1.5	ACCOMMODATION OF TRAFFIC					K	
	BROUGHT FORWARD FROM C36						
C1.5.7.6	Maintenance of illuminated traffic signs						
01.6.7.0	a) Sign mounted flashing amber light (a pair of two light mounted on a separate back board)	LI	Month	18			
	b) Flashing LED illuminated arrow bard	LI	Month	18			
	c) Illuminated road sign R-TR series	LI	Month	18			
	d) Illuminated road sign TW-series	LI	Month	18			
C1.5.7.7	Traffic calming devices:						
	(a) 25 mm high x 100 mm wide asphalt rumble strips	LI	m	200			
	(c) 150 mm high x 3 m wide asphalt speed control humps	LI	m	284			
C1.5.7.8	Traffic control station	LI	Month	18			
C1.5.7.9	Cleaning of traffic control facilities	LI	Month	18			
C1.5.8	Traffic safety officer	LI	Month	18			
C1.5.9	Traffic safety vehicle	LI	Month	18			
C1.5.11	Provision of safety equipment for visitors						
C1.5.11.1	Provision of reflective vest	LI	No	10			
C1.5.12	Additional traffic accommodation facilities ordered by Engineer						
C1.5.12.1	Provision additional traffic accommodation facilities ordered by Engineer		PC Sum	1	250 000	250 000	00
	b) Handling cost, profit and all other charges in respect of item C1.5.12.1		%	250 000			
TOTAL CAL	PRIED EODWARD TO SUMMARY						
TOTAL CA	RRIED FORWARD TO SUMMARY						
							<u> </u>

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOU	
						R	С
C1.6	CLEARING AND GRUBBING						
C1.6.1	Clearing						
C1.6.1.1	Clearing with machines and some hand labour where necessary		ha	6			
C1.6.1.2	Clearing with hand labour only when labour enhanced work is specified		ha	25			
PSC1.6.3	Cleaning of silted pipes		m³	313			
TOTAL C	ARRIED FORWARD TO SUMMARY						
IOIAL	AUVIED LOVANUD IO SOMMINIEK I						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOU	
11 [14]	DESCRIPTION	Li	ONIT	QII	NAIL	R	С
C1.7	LOADING AND HAULING						
C1.7.1	Loading						
C1.7.2.1	Hauling material for use in the Works and off-loading it on the site of the Works:						
	(a) Soil, gravel, crushed stone, and pavement layer material		m³-km	689 040			
TOTAL C	ARRIED FORWARD TO SUMMARY						

	DESCRIPTION		,	OT):	RATE AMOUNT		Т
ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	R	С
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES						
C2.1.1	Location, Identification, and relocation of existing services						
C2.1.1.4	Permanent services relocation or protection work by Contractor		PC Sum	1	500 000	500 000	00
C2.1.1.5	Handling costs and profit in respect of item C2.1.1.4 above		%	500 000			
C2.1.2	Existing services, detection and verification						
C2.1.2.3	Survey to verify existing service positions		PC Sum	1	35 000	35 000	00
C2.1.2.4	Handling costs and profit in respect of item C2.1.2.3 above		%	35 000			
C2.1.2.5	Using hand excavation to locate, expose and verify services		m³	2 500			
C2.1.3	Obtaining construction or work permits		Lump Sum	1			
TOTAL C	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN	T
						R	С
C3.1	DRAINS						
C3.1.1	Excavation for open drains:						
C3.1.1.1	a) Excavating all material situated the following depth ranges below the surface level:						
C2.1.1.5	i) 0m up to 1.5m		m³	4 110			
TOTAL CA	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUNT
						R C
C4.1	BORROW MATERIAL					
C4.1.12	Stockpile the material					
C4.1.12.2	Material directly from excavation		m³	6 523		
C4.1.15.1	Shaping and finishing the borrow-pit and quarry area and the stockpile sites					
	c) Stockpile sites		ha	1		
T074: 6	ADDIED FORWARD TO CHARLES					
TOTAL CA	ARRIED FORWARD TO SUMMARY					

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE		
	2201 11011		O 1 1 1	4		R	С
C4.3	EXISTING ROAD MATERIALS						
C4.3.5	Providing the milling machine on the site						
C4.3.5.2	Large milling machine with a cutting width exceeding 1,2 m		No	1			
C4.3.6	Milling and removal of existing asphalt layers with an average milling depth (Contractor takes ownership)						
C4.3.6.1	Not exceeding 50 mm		m³	6 410			
C4.3.6.2	Exceeding 50 mm but not exceeding 100 mm		m³	6 410			
C4.3.6.3	Exceeding 100 mm		m³	550			
C4.3.8	Excavating material by milling						
C4.3.8.3	Natural gravel material up to 300mm depth		m³	21 537			
C4.3.17	Spoil of material						
C4.3.17.1	(i) Spoil of asphalt material		m³	13 370			
C4.3.17.2	Crushed stone, macadam, gravel and sand material		m³	11 272			
C4.3.19.1	Paved blocks		m²	5 100			
TOTAL CAR	RIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN	Т
	DEGOMI HOM	<u> </u>	51411	Q(11	MAIL	R	С
C4.4	COMMERCIAL MATERIALS						
C4.4.2	Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers						
	b) Type G2 material		m³	20 105			
TOTAL C	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN R	T C
CAE	ALTERNATIVE MATERIAL C					IX	C
C4.5	ALTERNATIVE MATERIALS						
C4.5.1	Additional material investigations						
C4.5.1.1	Cost of sampling and laboratory test		P/Sum	1	500 000	500 000	00
C4.5.1.2	Contractor's handling cost, profit in respect of item C4.5.1.1		%	500 000			
TOTAL C	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN [*]	
IIEW	DESCRIPTION	<u> </u>	CIVIT	WII.	MAIE	R	С
C5.3	ROAD PAVEMENT LAYERS						
C5.3.1	Compiling and implementing M&U plans for the construction of all the pavement layers		No	1			
C5.3.2	Construction of pavement layers: commercial material						
C5.3.2.1	Construction of layers using conventional construction methods:						
	g) Gravel wearing course layer (0.15m thickness) compacted to 95 % of MDD		m³	1 800			
	i) Upper subbase gravel layer, G6 (chemically stabilised) 0.3m thickness compacted to 97% of MDD		m³	20 105			
TOTAL C	ARRIED FORWARD TO SUMMARY		l	l	l		
							Щ_

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN'	
						R	С
C5.4	STABILISATION						
C5.4.2	Chemical stabilisation						
C5.4.2.1	Chemical stabilisation (300mm layer thickness) of pavement layers (subbase layer to be stabilised)		m³	20 105			
5.4.5	Cementitious stabilisation agents for pavement layers						
C5.4.5.2	Addition of cementitious stabilisation agents (specify agent separately) for pavement layers and spreading the agent using bags and labour enhancement methods.:						
	(a) Cement (for pavement layer)		t	Rate only			
	(b) Lime		t	2 688			
C5.4.10	Provision and application of water for curing		kl	400			
TOTAL C	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN ¹ R	С
						K	C
C8.1	PRIME COAT						
C8.1.1	Prime coat:						
C8.1.1.2	MC - 30 cut-back bitumen		I	85 820			
C8.1.2	Aggregate for blinding						
C8.1.2.2	Crusher sand	LI	m³	245			
C8.1.3	Extra over item C8.1.1 for applying the prime coat accessible only to hand-held or light equipment	LI		5 000			
TOTAL CA	ARRIED FORWARD TO SUMMARY						

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN'	
						R	С
C9.1	ASPHALT LAYERS						
C9.1.1	Asphalt mix designs:						
C9.1.3	Application of bond coat						
C9.1.3.1	Stable grade 30% net bitumen emulsion as specified. Applied with a calibrated distributer		I	61 300			
C9.1.5	Asphalt surfacing						
C9.1.5.2	New construction						
	(a) Stone skeletal mix - continuously graded as defined (40mm layer thickness, binder type, design class/level and placing technique)		m²	86 420			
C9.1.7	Placing and compacting asphalt in restricted areas						
C9.1.7.1	Extra over payment item C9.1.4.1 and C9.1.5.1 (state layer thickness, mix class, binder type, nominal maximum particle size and placing technique (hand)		m²	3 500			
C9.1.13	Coring of asphalt	LI	No	300			
TOTAL CA	RRIED FORWARD TO SUMMARY			<u> </u>	<u> </u>		

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUN	Γ
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS					R	С
C11.9.1	Finishing the road and road reserve:						
C11.9.1.1	Dual carriageway road		km	10			
TOTAL							
TOTAL CA	RRIED FORWARD TO SUMMARY						

						AMOUN	т
ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	R	С
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP						
C20.1.2.2	Employer's contribution to other special tests						
	(a) Specify test		Prime Cost	1	300 000	300 000	00
	(b) Handling costs and profit in respect of item C20.1.2.2(a)		%	300 000			
TOTAL CAI	RRIED FORWARD TO SUMMARY						
		TOTAL CARRIED TORWARD TO SOMMARY					

PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00149/00000/00/INF/20/T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0,0 TO KM 10,0 IN THE ZULULAND DISTRICT UNDER EMPANGENI REGION SCHEDULE A: ROADWORKS

SUMMARY OF SECTIONS

CHAPTER	DESCRIPTION	FROM PAGE	AMOUNT
C1.2	GENERAL REQUIREMENTS AND PAYMENT	C29	R
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	C32	R
C1.4	FACILITIES FOR THE ENGINEER	C33	R
C1.5	ACCOMMODATION OF TRAFFIC	C36	R
C1.6	CLEARING AND GRUBBING	C38	R
C1.7	LOADING AND HAULING	C39	R
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	C40	R
C3.1	DRAINS	C41	R
C4.1	BORROW MATERIAL	C42	R
C4.3	EXISTING ROAD MATERIALS	C43	R
C4.4	COMMERCIAL MATERIALS	C44	R
C4.5	ALTERNATIVE MATERIALS	C45	
C5.3	ROAD PAVEMENT LAYERS	C46	R
C5.4	STABILISATION	C47	R
C8.1	PRIME COAT	C48	
C9.1	ASPHALT	C49	R R
C11.9	FINISH THE ROAD AND ROAD RESERVE	C50	R
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP	C51	R
	TOTAL CARRIED FORWARD TO TENDER SUMMARY		R

Contract No. ZNB00149/00000/00/INF/20/T SCHEDULE F: EXPANDED PUBLIC WORKS PROGRAMME

SECTION F

				T		SECTION F
ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUNT R
F	EXPANDED PUBLIC WORKS PROGRAMME					
F5.01	Provision of the training venue facility, including the cost of transporting the learners to and from this facility:		PC-Sum	1	250 000	250 000.00
TOTAL CA	ARRIED FORWARD					

Contract No. ZNB00149/00000/00/INF/20/T

	JLE F: EXPANDED PUBLIC WORKS PR	LI	UNIT	QTY	RATE	TION F AMOUNT R
ITEM BROUGH	DESCRIPTION T FORWARD	LI	UNIT	QII	KAIE	AMOUNTR
F5.02	Training of learners employed by the main contractor (Including the payment of learners):					
	(a) Generic skills:					
	(i) Training costs		PC sum	1	250 000	250 000.0
	(ii) Handling costs and profit in respect of subitems F5.02(a) (i)		%	250 000		
	(b) Entrepreneurial skills:					
	(i) Training costs		PC sum	1	250 000	250 000.0
	(ii) Handling costs and profit in respect of subitem F5.02(b)(i)		%	250 000.00		
	(c) Construction skills:					
	(i) Training costs		PC sum	1	300 000	300 000.0
	(ii) Handling costs and profit in respect of subitem F5.02(c)(i)		%	300 000.00		
	(e) Transportation and accommodation costs of selected learners only, while receiving off-site training:					
	(i)Transportation and accommodation costs		PC sum	1	150 000	150 000.00
	(ii) Handling costs and profit in respect of subitem F5.02(c)(i)		%	150 000.00		
	ARRIED FORWARD TO SUMMARY					

Contract No. ZNB00149/00000/00/INF/20/T

	Contract No. ZNB00149/00000/00/INF/20/T SCHEDULE F: EXPANDED PUBLIC WORKS PROGRAMME SECTION F								
ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUNT R			
	FORWARD		<u> </u>	<u> </u>		7			
F5.03	Payments associated with the NYS programme:								
	(a) Employment of NYS workers		Prov sum	1	950 000	950 000			
	(b) Provision of tools and apparel for NYS workers		Prov sum	1	60 000	60 000.00			
	(c) Handling costs and profit in respect of subitems F6.03(a) and (b)		%	1 010 000					
	(d) Training of NYS workers:								
	(i) Provision of training for NYS workers		Prov sum	1	1 660 000	1 660 000			
	(ii) Handling costs and profit in respect of subitem F6.03(d)(i)		%	1 660 000					
	(e) Liaison with the Employer's project manager and the training service provider:								
	(i) Liaison conducted by the Construction Manager		h	300					
	(ii) Liaison conducted by the senior site foreman		h	600					
	(f) Prime cost sum for EPWP branding		PC -Sum	1	35 000	35 000.00			
	(g) Handling costs and profit in respect of sub item F6.03(f)(i) above		%	35 000					
TOTAL CA	RRIED FORWARD TO SUMMARY	1	1	1	1				

Contract No. ZNB00149/00000/00/INF/20/T SCHEDULE G: SMALL CONTRACTOR DEVELOPMENT

SECTION G

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	SECTION O
G	SMALL CONTRACTOR DEVELOPMENT	LI	UNIT	QIT	KAIE	AWOUNTR
G10.01	Procurement of Targeted Enterprises:					
	(a) Management and execution of Targeted Enterprise procurement process:					
	(i) Procurement process for the appointment of CIDB contractor grading designation 1 Targeted Enterprise subcontractor (100 copies of the tender document required for each individual tender)		No	9		
	(ii) Procurement process for the appointment of CIDB contractor grading designation 2 Targeted Enterprise subcontractor (80 copies of the tender document required for each individual tender)		No	6		
	(iii) Procurement process for the appointment of CIDB contractor grading designation 3 Targeted Enterprise subcontractor (60 copies of the tender document required for each individual tender)		No	3		
	(iv) Procurement process for the appointment of CIDB contractor grading designation 4 Targeted Enterprise subcontractor (50 copies of the tender document required for each individual tender)		No	1		
	(v) Procurement process for the appointment of CIDB contractor grading designation 5 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual tender)		No	1		
	(vi) Procurement process for the appointment of CIDB contractor grading designation 6 Targeted Enterprise subcontractor (30 copies of the tender document required for each individual tender)		No	1		
TOTAL CA	ARRIED FORWARD					
						1

Contract No. ZNB00149/00000/00/INF/20/T SCHEDULE G: SMALL CONTRACTOR DEVELOPMENT

SECTION G

ITEM	DESCRIPTION	LI	UNIT	QTY	RATE	AMOUNT R
BROUGHT	FORWARD					
G10.02	Construction Works for Targeted Enterprise subcontractors:					
	(a) Payments associated with the construction Works carried out by Targeted Enterprise subcontractors		Prov sum	1	30 772 796.84	30 772 796.84
	(b) Handling costs and profit in respect of subitem G10.02(a)		%	30 772 796.84		
	(c) Supply of materials and small construction equipment to assist Targeted Enterprise subcontractors		Prov sum	1	8 797 829.47	8 797 829.47
	(d) Handling costs and profit in respect of subitem G10.02(c)		%	8 797 829.47		
	(e) Management of Targeted Enterprise subcontractors		Sum	1		
G10.03	Training of learners employed by Targeted Enterprise subcontractors:					
	(a) Generic skills:					
	(i) Training costs		Prov sum	1	350 000	350 000.00
	(ii) Handling costs and profit in respect of subitem G10.03(a)(i)		%	350 000		
	(b) Entrepreneurial skills:					
	(i) Training costs		Prov sum	1	500 000	500 000.00
	(ii) Handling costs and profit in respect of subitem G10.03(b)(i)		%	500 000		
	(c) Construction skills:					
	(i) Training costs		Prov sum	1	600 000	600 000.00
	(ii) Handling costs and profit in respect of subitem G10.03(c)(i)		%	600 000		
	(d) Transportation and accommodation costs of selected learners only, while receiving off-site training:					
	(i) Transportation and accommodation costs		Prov sum	1	125 000	125 000.00
	(ii) Handling costs and profit in respect of subitem G10.03(d)(i)		%	125 000		

PROVINCE OF KWAZULU-NATAL DEPARTMENT OF TRANSPORT

CONTRACT NO. ZNB00149/00000/00/INF/20/T: THE REHABILITATION OF MAIN ROAD P34-5: FROM KM 0,0 TO KM 10,0 IN THE ZULULAND DISTRICT UNDER EMPANGENI REGION

TENDER SUMMARY

	DESCRIPTION	AMOUNT
Totals of Bill of	Quantities brought forward:	
Schedule A:	Roadworks (b/f from page C50)	R
Schedule D:	Daywork (b/f from page C30)	R
Schedule F:	Expanded Public Works Programme (b/f from page C51)	R
Schedule G:	Small Contractor Development (b/f from page C53)	R
	SUBTOTAL 1	R
	Add: Contingencies (10% of SUBTOTAL 1)	R
	SUBTOTAL 2	R
Add: Co	entract Price Adjustment (10% of SUBTOTAL 2)	R
	SUBTOTAL 3	R
	Add: VAT (15% of SUBTOTAL 3)	R
TOTAL CARR	IED FORWARD TO FORM OF OFFER C1.1.1	R

Signed on behalf of the Tenderer:	. (Signature)
Date:	
Tenderer's Name:)	

PART C3: SCOPE OF WORK

<u>TABL</u>	E OF CONT	<u>ENTS</u>	PAGE
C3.1	STANDA	RD SPECIFICATIONS	C60
C3.2	PROJECT	SPECIFICATIONS	C60
	PART A:	GENERAL	
	 DRAW PROC CONS 	RIPTION OF THE WORKSUNGSUREMENTTRUCTIONTRU	C61 C70 C70 C70 C71
	PART B:	AMENDMENTS TO THE STANDARD SPECIFICATIONS	
00.0	SPECIFIC	SPECIFICATIONS RELATING TO THE STANDARD CATIONS AND OTHER ADDITIONAL SPECIFICATIONS	C74
C3.3	PARTICU	LAR SPECIFICATIONS	
	PART C:	ENVIRONMENTAL MANAGEMENT SPECIFICATION	C88
	PART D:	DAYWORK	C94
	PART E:	OHSA 1993 HEALTH AND SAFETY SPECIFICATION	C97
	PART F:	EXPANDED PUBLIC WORKS PROGRAMME	C140

C3.1: STANDARD SPECIFICATIONS

The Standard Specifications on which this contract is based are the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020'.

C3.2: PROJECT SPECIFICATIONS

The Project Specifications, consisting of two parts, form an integral part of the Contract and supplement the Standard Specifications.

Part A contains a general description of the Works, the Site and the requirements to be met.

Part B contains variations, amendments and additions to the Standard Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standard or Particular Specifications and the Project Specifications, the Project Specifications shall take precedence. In the event of a discrepancy between the Specifications (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Employer's Agent before the execution of the work under the relevant item.

The Standard Specifications, which form part of this contract, have been written to cover all phases of work normally required for road contracts, and they may therefore cover items not applicable to this particular contract.

C3.2: PROJECT SPECIFICATIONS

PART A: GENERAL

1. DESCRIPTION OF THE WORKS

1.1 Employer's objectives

This Project forms part of the Province of KwaZulu-Natal Department of Transport's Rehabilitation Programme. This Contract represents rehabilitation of 10 km of Main Road 34-5 (P34-5). This section of Main Road P34-5 rehabilitation will commence from km 0.0 to km10 where the has shown distress and requires deep milling rehabilitation

The contract is located in a region of KwaZulu-Natal that has been historically impoverished by a lack of infrastructure access. It is therefore mandatory that the Contractor shall interact with the community via proactive project liaison with and project participation by its leaders and constituted organisations and forums, as well as through the employment of its people, and these activities shall constitute essential facets of the project.

The Employer's objectives in delivering public infrastructure and services for this project include the provision of temporary work opportunities to the local community through the application of labour-intensive methods to the maximum extent feasible, in accordance with the Expanded Public Works Programme Guidelines.

The Contractor shall be required to attend meetings of the local Project Liaison Committee (PLC) from time to time. The requirements of the Expanded Public Works Programme (EPWP) are contained in Part F of section C3.3 Particular Specifications. These EPWP requirements also include provisions for the National Youth Service programme where applicable. The requirements in terms of Government's initiatives for broad-based black economic empowerment with respect to small contractor development are contained in Part G of section C3.3 Particular Specifications.

1.2 Location of the Works

The Works are located about 47 km northwest of Vryheid and the rehabilitation will commence at kilometre zero of P34-5; where it intersect with P404 in the eDumbe Local Municipality KZ No. 261.

1.3 Overview of the Works

The project comprises the construction of 10 kilometres of deep milling rehabilitation to asphalt blacktop surface road varies in terms width to average with of 9.25 m, including the construction of the ancillary works and associated road prism drainage. Other contractors are expected to be involved with the roadworks on the section from km 0 to km 10 through the programme of contract participation goals or target.

1.4 Extent of the Works

The Works to be carried out include the following main activities:

- (a) Establishment on site and clearing and grubbing.
- (b) Provision of traffic accommodation facilities.
- (c) Survey requirements.
- (d) Construction of all pavement layer to the top of the G2 base, including priming to protect the G2 layer.
- (e) Road prism drainage.
- (f) Construction of erosion protection measures (gabions, stone pitching, etc.)
- (g) Installation of guardrails.
- (h) Finishing and cleaning up of the road and road reserve.

- (i) Continuous quality control over materials and workmanship, and compliance with the Particular Specifications with regard to environmental management and occupational health and safety, during all the above construction activities.
- (j) Removal of all site establishment facilities and constructional plant on completion of the Works.
- (k) Making good of any defects during the Defects Liability Period.

1.5 Detailed description of the Works

The following description is a broad outline of the works and does not limit the work to be executed by the Contractor in terms of the contract. The description of some of the major items indicated in this section are indicative, not absolute, and are provided to define in general terms the overall scope of the project.

No approximate quantities of each type of work to be carried out in accordance with the contract documents are listed in the Schedule of Quantities on the following tables.

The site shall not only comprise the proclaimed road reserve but shall be extended in the broader sense to take account of all areas occupied by the Contractor, be it deliberate or unintentional, in the execution of the contract. The site includes all the land within the proclaimed limits of the road reserve along the extent of the works, borrow pits and quarry sites, stockpile areas, locations set aside for construction and supervision accommodation and any other location required for the execution of the Works.

Incidental intrusion into private or tribal property outside the road reserve shall not be permitted without the owner's written authority. Any such agreement reached with a private or tribal landowner (occupier) shall include the proviso that any material or equipment on that site shall remain the exclusive property of the Employer in terms of the contract.

1.5.1 Access to the Site

Access to the Site can be obtained from the intersection of P34-4 and P404 which serves as links from Vryheid to eDumbe. From Durban use N2 towards northwest travel approximately 110kilometres then take Dokodweni off ramp to join R66 travel towards North then pass Eshowe through R66 continue with R66 approximately 211 kilometres and the road P34-5 intersect with the road mentioned above. Alternatively, from Dundee & Newcastle join R34 travel towards South continue with R34 approximately 95 kilometres towards Vryheid, then turn left next to Engen garage. Travel approximate 3kilometers on Main Road P528 then turn left to join P45 which will take you to eDumbe town to join P34-5 at km 1.00

Throughout the duration of this contract, Main Road P34-5 shall be shared with other contractors engaged by the KwaZulu-Natal Department of Transport on this P34-5 project whose construction activities may affect access from time to time. The Contractor shall therefore be required to liaise on an ongoing basis with these other contractors with respect to access related matters throughout the duration of the contract.

1.5.2 Demolition work

The Contractor is not required to carry out any demolition work to existing structures

1.5.3 Spoiling of surplus material

Surplus material shall be spoiled in designated areas approved by the Employer's Agent. The spoil material shall be disposed of in accordance with subclause A4.1.7.2(I) of the COTO Standard Specifications.

1.5.4 Quantities

The approximate leading quantities for the permanent Works to be constructed are as follows:

Description	Source	Approximate quantity
Selected layers –G7	Stockpile/borrow – refer to materials report insitu pavement material	7 664 m³
Selected material G7 – gravel shoulders	Stockpile/borrow – refer to materials report insitu pavement material	9 600 m³
Stabilised subbase layer – G6	commercial source	20 105 m³
Base layer – G2	Commercial source – refer to materials report	20 910 m³
Paving blocks	Commercial sources	5 100m²
Primming	Commercial sources	85 820I
Concrete for lined drains, edge beams	Commercial sources	320 m³
Guardrails	Commercial sources	500 m
Asphalt	Commercial sources	122 597m²

1.5.5 Material investigations

Materials information is furnished in section C4.4 at the end of this document.

1.5.6 Material sources, spoil and stockpile areas

The G9 and G7 materials for the lower and upper selected layers respectively shall be obtained either from borrow or from stockpile, and the material for the stabilised subbase layer shall be obtained from stockpile, all as described in the materials report in section C4.4.

The material for the G2 base and all concrete materials shall be obtained from commercial sources.

Spoil areas and areas for the temporary stockpiling of construction materials shall be determined and agreed on site in conjunction with the Employer's Agent, the PLC (where applicable) and the local communities (where applicable). The Contractor shall be permitted to use only these agreed spoil and stockpile areas, which shall be landscaped and vegetated on completion of the work.

1.5.7 Accommodation of traffic

The P34-5 is a consists of light trafficked minor heavy traffic especial in town. This project is located on an Abnormal Load Route and the requirements for the Contractor to comply with are e.g. maintain road width of 10 metres, or a height clearance of 4,75 m, or traffic deviations to be accessible for Abnormal Loads, or make provision for Abnormal Loads to travel over the Site in a safe manner.

The Contractor shall be required to accommodate traffic on the existing roadway and on the existing detours. Therefore, the contractor to provide adequate signage for accommodation of traffic

1.5.8 Accommodation of other contractors

Other contractors working on the site shall include:

The contract participation Goals entities and may contractor be reliable for the compliance of accommodation of traffic. The contractor to monitor accommodation of traffic where CPG's entities such grade 1's to 6's are engaged on with work

To ensure the smooth running of all contracts, the Contractor shall be required to liaise with, cooperate with and accommodate all other contractors working on the site, particularly when such other contractors are working in the same area simultaneously.

1.5.9 Existing services

The following major services are expected to be encountered during the construction of the Works:

- Waterline supply in eDumbe town and surrounding areas
- Eskom and Telekom underground cables

It is also expected that unknown domestic services crossings requiring relocation or protection may be encountered along the route as the work proceeds. The Contractor shall make every effort to establish the location of these services in any area prior to excavations commencing in that area. Such efforts shall include diligent enquiry and discussions with adjacent landowners, visual surface inspection and exploratory trenching investigation as necessary.

1.5.10 Employer's Agent's site offices and laboratory

The Contractor shall be required to provide furnished site office facilities, laboratory facilities, ablution facilities, and carports for the Employer's Agent at a site located in close proximity to the Contractor's office establishment and to the Works. A possible area for such site establishment shall be indicated at the Site Clarification Meeting.

1.5.11 Climate

The road is located in a high summer rainfall region with a 30 year mean annual precipitation of 750 mm.

1.5.12 Environment

The Contractor's attention is called to clause A1.2.3.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and to the requirements of Part C: Environmental Management Specification contained in section C3.3 Particular Specifications.

1.5.13 Labour

A Project Liaison Committee (PLC) has been established and is a vital means of communication between all parties involved with the project. The composition of the PLC comprises representatives of the Employer, the Employer's Agent and formal structures within the community.

The Contractor shall make use of these communication channels and shall appoint from amongst his site personnel a responsible person to participate in the affairs of the PLC, and this representative will be also required to attend the monthly PLC meetings.

It is mandatory that the Contractor shall interact with the community via proactive project liaison and project participation by its leaders and constituted organisations and forums, as well as through the employment of its people, and these activities shall constitute essential facets of the project.

Local labour is to be used and the employment of such labour is to be done in conjunction with the PLC. The PLC has formed a Labour Committee who shall assist the Contractor with the recruitment of local labourers to ensure an equal distribution of people employed between the various Amakhosi in the area.

1.5.14 Labour-enhanced construction methods

Labour enhanced construction shall mean the economically efficient employment of as great a portion of local labour as is technically feasible to produce a standard of construction as demanded by the specifications with completion by the Due Completion Date, where local labour is the primary resource, supported by plant for activities that cannot be carried out feasibly by labour only.

Labour enhanced construction activities are to be planned as task-based work as a general rule. A task means a fixed quantity of work, to be performed to a clearly defined quality. Task-based work means work in which a worker is paid a fixed rate for performing a task, which is clearly defined in terms of quantity and quality. Typically, a particular task can be completed within a working day.

Appropriate portions of the Works included in the Contract shall be carried out using labour enhanced construction methods.

Except where the use of equipment is essential in order, in the opinion of the Employer's Agent, to meet the specified requirements by the Due Completion Date, or where the use of equipment is essential as a result of occupational health and safety considerations, the Contractor shall use only hand tools and equipment in the construction of those portions of the Works that are required in terms of these Project Specifications to be constructed using labour enhanced construction methods.

Such portions of the Works shall be constructed utilizing only the local labour of the Contractor and/or the local labour of subcontractors, supplemented by the Contractor's key personnel to the extent necessary and unavoidable, unless otherwise instructed by the Employer's Agent and in accordance with the further provisions of the relevant sections of Part B of the Project Specifications.

Subject to considerations of occupational health and safety, and subject to the nature of the in situ materials being such that they can be excavated efficiently by hand, the portions of the Works to be carried out under supervision using labour enhanced construction methods are listed under the labour enhanced item numbers as per COTO -Draft Standard(DS) October 2020 specifications in the bill of quantities, include, but are not limited to, the following:

Erection of the Contractor's and Employer's Agent's site establishment facilities;

Provision of domestic services at the site establishment facilities:

Provision of flagmen and labour for erecting traffic accommodation facilities;

Clearing of the Site:

Excavation for structures and open drains up to 1,5 m deep where the depth of the water table permits such excavation to be carried out safely, and the subsequent backfilling thereof;

Bedding, selected fill, backfilling and compaction of all trenches for prefabricated culverts irrespective of depth, but assisted by mechanical compaction equipment in order to achieve the specified densities;

Transportation and spoiling of all trench materials, where the disposal site is located within 20 metres of the source:

Mixing and placing of concrete for the channel and backing to the prefabricated kerbs;

Mixing and placing of concrete for concrete lined drains and sidewalks;

Mixing and placing of concrete for minor drainage structures and road furniture structures;

Mixing and placing of concrete for concrete edge beams at gravel road access points;

Installation of prefabricated kerbs;

Construction of all brickwork required for drainage structures and manholes:

Erection of falsework and formwork;

Fixing of reinforcement;

Spreading of offloaded earthworks materials to the extent scheduled;

Spreading of offloaded pavement layers materials to the extent scheduled:

Spreading of stabilising agent;

Maintenance patching of surfacing:

Slurry seal surfacing;

Excavation for and construction of stone pitching, and subsequent backfilling;

Excavation for and construction of gabion boxes and mattresses, and subsequent backfilling;

Dismantling / erection of fences;

Excavation and subsequent backfilling for guardrail;

Dismantling / erection of guardrail;

Excavation and subsequent backfilling for road signs;

Dismantling / erection of road signs;

Spreading of topsoil;

Planting of grass cuttings, grass sodding and hand sowing of grass seeds; and

Cleaning and tidying up of the Site.

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

1.6 Temporary Works

The Temporary Works required under this Contract shall include the traffic accommodation measures implemented, the provision of drainage control, falsework and formwork during the construction of the minor drainage structures, and the provision of any scaffolding or temporary propping used during the erection of the road signs.

All Temporary Works shall be removed from the Site on completion of the Contract.

1.7 Maintenance of the Works during the construction period

The Contractor shall take note of the various requirements of the General Conditions of Contract 2015 and the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 with respect to the care and protection of the Works.

The handing-over of the road reserve for this contract is described in clause A1.2.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. The Contractor shall be responsible for maintaining this portion of the road from the date of hand-over until the issue of the Certificate of Practical Completion.

1.8 Testing of materials

A prime cost sum has been allowed in chapter 20 of the Bill of Quantities for all acceptance control testing laboratory work to be carried out by the Employer's Agent using the laboratory facilities which may include and/or commercial laboratory facilities.

The Contractor shall carry out at his own cost the required process control testing as specified in terms of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

1.9 Power supply and other services

The Contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment shall be made for the provision of electrical and other services. The cost thereof shall be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

1.10 Construction in confined areas

It may be necessary for the Contractor to work within confined areas. Except where provided for in the specifications, no additional payment shall be made for work done in restricted areas. In certain places the width of the fill material and pavement layers may decrease to zero and the working space may be confined. The method of construction in these confined areas largely depends on the Contractor's constructional plant. However, the Contractor shall note that, unless otherwise provided for in terms of the

scheduled payment items in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 or these project specifications, measurement and payment shall 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 methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions, and that no extra payment shall be made nor shall any claim for additional payment be considered in such cases.

1.11 Contractor's campsite (Project Specific)

Possible locations for a campsite shall be pointed out at the clarification meeting. (Project Specific Clarification meetings)

The Contractor shall make his own arrangements for the provision of his campsite and housing for construction personnel but the chosen site shall be subject to the approval of the Employer's Agent, the local authorities and, where applicable, the Project Liaison Committee (PLC) associated with the project.

The standard of the Contractor's camp, offices, accommodation, ablution, and other facilities must comply with the requirements of all local authority, environmental and industrial regulations concerned. In establishing and maintaining his campsite, due cognisance is to be taken of the requirements of clause A1.3.3 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

The Contractor is to fully familiarise himself with all local by-laws and Government regulations for the employment, transport and accommodation of labour on site.

The Contractor shall particularly note that there is a high risk of theft, vandalism and damage to property in this area and strict security will be required for all plant, establishment, temporary works and partially completed works. The Contractor shall be responsible for providing security for all plant, establishment, temporary works and partially completed works. No separate payment shall be made for the provision of such security since full compensation for these costs shall be deemed to be included in the amount tendered for item C1.3.1.3 (The contractor's general obligations: Time-related obligations).

1.12 Additional requirements for construction activities

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

The Contractor's tendered rates shall include full compensation for all costs which may arise from the construction and maintenance of deviations and construction under traffic. No claim for additional costs which may arise from these methods of traffic accommodation and no additional payment owing to inconvenience as a result of the Contractor's method of working shall be considered.

1.13 Construction programme

The Contractor shall submit a detailed time programme in accordance with clause 5.6.2 of the General Conditions of Contract 2015, clause A1.2.7 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

In addition to any other restrictions accommodated by the Contractor in compiling the construction programme, the following constraints shall be taken into account in the preparation thereof:

- (a) The whole of the Works (and the portions of the Works if completion in portions is required) shall be completed within the time period(s) stated (refer to the Contract Data in section C1.2.2).
- (b) Working days lost due to abnormal rainfall shall be treated as set out in clause A1.2.3.4 (b)

- (c) Allowance shall be made for non-working days and special non-working days (refer to the Contract Data in section C1.2.2).
- (d) Construction activities must comply with all the specified environmental requirements including clause A1.2.3.3 of Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and the requirements of Part C: Environmental Management Specification contained in section C3.3 Particular Specifications.
- (e) Construction activities must comply with all the specified health and safety obligations including the requirements of Part D: OHSA 1993 Health and Safety Specification contained in section C3.3 Particular Specifications.
- (f) Strict control of access to and from local public roads shall be required when construction vehicles, plant or equipment leave or enter the site.
- (g) Throughout the contract period traffic must be accommodated through the site and all other contractors engaged on the construction of identified roads must be accommodated.
- (h) The Contractor's programme of work shall take due cognisance of risks by limiting the duration of the exposure of the various construction elements to natural phenomena.

PRELIMINARY CONSTRUCTION PROGRAMME

P34-5																		
ACTIVITIES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Rehabilitation of P34-5																		
Site Establishment																		
NYS Training																		
12 Months class																		
Procurement of CPG Contractors 1-5																		
Clearing and Grubbing																		
Deviation																		
Deviation maintenance																		
Deep milling																		
Removal of surfacing																		
Deep milling of base 150mm																		
Deep milling of subbase 200mm																		
Stockpiling material (G6 quality)																		
Spoiling of material																		
shoulder and lower selected																		
Hauling and processing of subbase																		
Processing G6 material cement																		ŀ
stabilized subbase																		
Processing of crushed stone base (G2																		ŀ
layer)																		
Ancillary works																		
Subsoils																		
Kerbing & channelling																		
Construction of concrete lined drains																		
Construction of sidewalks																		
Surfacing																		
Asphalt																		
Road Marking																		
Installation of road signs																		
Snag list																		
De-establishment																		

2. DRAWINGS

The drawings that form part of the Tender documents are issued on a CD and shall be used for Tender purposes only.

The Contractor will be supplied with three complete sets of A0 paper print drawings, and one set of drawings on a CD. These A0 paper prints and CD are issued free of charge and the Contractor shall make any additional copies he may require at his own cost.

Any information in the possession of the Contractor which the Employer's Agent requires to complete the as-built drawings shall be supplied to the Employer's Agent before a certificate of completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless so instructed by the Employer's Agent. The Employer's Agent will supply all figures / dimensions omitted from the drawings.

The levels given on the drawings are subject to confirmation on site, and the Contractor shall submit all levels to the Employer's Agent for confirmation before he commences any structural construction work. The Contractor shall also check all clearances given on the drawings and shall inform the Employer's Agent of any discrepancies.

3. PROCUREMENT

The contractor shall procure goods and services under provisional sums and prime cost sums according to the Employer's standards.

4. CONSTRUCTION

4.1 Applicable SANS 2001 standards for construction work

All construction work must conform with the relevant SABS or SANS specifications referred to in the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020', or in Section C3.2 Project Specifications, Part B: Amendments to the Standard Specifications, of this document.

4.2 Applicable national and international standards

All construction work must be undertaken in accordance with the 'Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and as amended in Section C3.2 Project Specifications, Part B: Amendments to the Standard Specifications, of this document.

4.3 Particular / generic specifications

As well as the 'Amendments to the Standard Specifications' contained in Part B of Section C3.2 Project Specifications, of this document, the following Particular Specifications as contained in Section C3.3, are applicable to this Contract:

Part C: Environmental Management Specification

Part D: OHSA 1993 Health and Safety Specification

Part E: Expanded Public Works Programme

Part F: Small Contractor Development

The 'General Conditions of Contract for Construction Works, Third Edition (2015)', published by the South African Institution of Civil Engineering which is applicable to this Contract.

4.4 Certification by recognized bodies

No certification of items included in the Works is required.

4.5 Plant and materials provided by the Employer

No plant and materials are to be provided by the Employer.

4.6 Services and facilities provided by the Employer

The Employer's Agent's site office and laboratory facilities will be paid for in terms of the Contract. No other services or facilities are to be provided by the Employer.

5. MANAGEMENT

5.1 Applicable SANS 1921 standards

The following parts of SANS 1921 and associated specification data are applicable:

5.1.1 SANS 1921-1 Part 1: General engineering and construction works

	Specification data associated with SANS 1921-1								
Clause No.	Essential data								
4.1.7	There are no requirements for drawings, information and calculations for which the Contractor is responsible.								
4.2.1	The responsibility strategy assigned to the Contractor for the works is 'A'.								
4.3.1	The programme must conform to clause A1.2.7.1 (Scheme 1) 'Programme of Work' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and clause 5.6 'Programme' of the 'General Conditions of Contract 2015'.								
4.3.3	The Contractor must give 24 hours' notice for inspection of work that is to be covered up.								
4.7.3	Where applicable, the Contractor is afforded the opportunity of pricing an item to cover costs of unavoidable over-break.								
4.12.2	The samples of materials, workmanship and finishes that the Contractor is to provide and deliver to the Employer/Employer's Agent are to be as described in clause A1.2.8 'Workmanship and Quality Control' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 and clause 7 'Quality and Related Matters' of the 'General Conditions of Contract 2015'.								
4.12.2	The fabrication drawings that the Contractor is to provide to the Employer are: none.								
4.14.5	The Contractor is to provide latrine and ablution facilities as described in Part C 'Environmental Management Plan' in Section C3.3 Particular Specifications of these Project Specifications.								
4.14.6	The requirements for the provision and erection of signboards are as described in clause A1.2.3.10 'Notices, Signs and Advertisements' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020, and as detailed in the 'Example of Contract Signboard Details' in Section C4: Site Information of these Project Specifications.								
4.17.1	The requirements for the termination, diversion or maintenance of existing services are described in clause A1.2.7.3 and Chapter 2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.								
4.17.3	Services that are known to exist on the site are described in clause A1.2.7.3 and Chapter 2 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.								
4.17.4	The requirements for detection apparatus for locating underground services are: none.								
4.18	The additional health and safety requirements are described in Part D 'OHSA 1993 Health and Safety Specification' in Section C3.3 Particular Specifications of these Project Specifications.								

5.1.1.1 Additional clauses:

(a) Site meetings and procedures

Site meetings shall be convened as described in clause A1.2.3.16 'Monthly Site Meetings' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site memoranda book, a complete set of contract working drawings and a copy of the procurement document, and shall make these available at all reasonable times to all persons concerned with the contract.

(b) Water and electricity

The Contractor is to provide water and electricity as described in clauses A1.2.3.21 'Water' and A1.4.7.3 'Services' of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

5.1.2 SANS 1921-6 Part 6: HIV/AIDS awareness

	Specification data associated with SANS 1921-6								
Clause No. Essential data									
4.2.1(a)	A qualified service provider is one that is an accredited or provisionally accredited training service provider in the HIV/AIDS field. A list of accredited service providers can be obtained from the Construction SETA (CETA) (tel. 011 265 5900), Health and Welfare SETA (HWSETA) (011 622 6852) or on the Health and Welfare SETA website: www.hwseta.org.za.								
4.2.1(a)	The HIV/AIDS awareness programme is to be repeated at four monthly intervals throughout the duration of the contract.								

5.1.2.1 Additional clauses:

(a) Workshops

The duration of each workshop shall not be less than 2½ hours.

5.2 Recording of weather

The Contractor shall erect a rain gauge and record the rainfall as described in clause A1.2.3.4 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020. This information together with other details of the prevailing weather conditions shall be recorded in the daily site diary.

5.3 Unauthorised persons

The Contractor shall keep unauthorised persons away from the Works at all times. Under no circumstances may the Contractor's personnel be accommodated on the site.

5.4 Management meetings

Management meetings are to be held weekly at a time convenient to all concerned, to discuss planning and health and safety amongst other things. Attendance by the Construction Manager and the Employer's Agent's Representatives on site is mandatory, and attendance by other interested parties will be by invitation.

5.5 Forms for contract administration

The Employer's Agent's Representative will provide standard forms for 'Site Diary', 'Site Memoranda', 'Requests for Inspection' and any others deemed to be necessary during the contract.

5.6 Electronic payments

Payments of approved payment claims will be made electronically upon submission of the Contractor's banking details.

5.7 Daily records

A site diary is to be compiled jointly by the Construction Manager and the Employer's Agent's Representatives on site and is to be agreed and signed by both parties. The original signed copy is to be retained by the Employer's Agent's Representative.

The Contractor is to keep daily records of people and equipment on site in a format to be agreed by the Employer's Agent's Representative, and is to provide copies to the Employer's Agent's Representative when requested.

5.8 Payment certificates

Details of measurements, proof of payment for items contained in provisional sums and prime cost sums, proof of ownership of Plant and materials on site and documentation pertaining to contract price adjustment and special materials, are required as substantiation of claims for payment.

5.9 Permits

No security/entrance permits are required by the Contractor's personnel to enter the site.

5.10 Proof of compliance with the law

There are no requirements for the Contractor to verify compliance with any legislation.

5.11 Submission of reports

The contractor shall submit monthly reports in accordance with the specifications in Part E: Expanded Public Works Programme and Part F: Small Contractor Development.

C3.2: PROJECT SPECIFICATIONS

PART B: AMENDMENTS TO THE STANDARD SPECIFICATIONS

PROJECT SPECIFICATIONS RELATING TO THE STANDARD SPECIFICATIONS AND OTHER ADDITIONAL SPECIFICATIONS

In certain clauses in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020, allowance is made for a choice to be specified in the Project Specifications 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 Project Specifications. It also contains the necessary additional specifications required for this Contract.

The clauses and payment items dealt with in this part of the Project Specifications are numbered 'PS' with a number corresponding to the relevant clause or item number in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

New clauses and payment items not covered by clauses or items in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 have been included here and have also been designated with the prefix 'PS'. Such clauses and items have been given a new number following upon the last number used in the particular chapter referred to in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

CHAPTER 1.2 GENERAL REQUIREMENTS AND PROVISIONS

PART A: SPECIFICATION

PSA1.2.3.4 EXTENSION OF TIME FOR DELAYS BY RAINFALL

Add the following to the end of A1.2.3.4(b) Method 2 (Critical path method with consequential delays):

The value of "n" working days expected delay caused by normal rainy weather as referred to in Method (ii) shall be as given in the table below for each respective calendar month of any year:

Month	Expected delay of "n" working days due to normal rainy weather	Month	Expected delay of "n" working days due to normal rainy weather					
January*** February March April May June	5 4 4 3 2	July August September October November December***	1 1 2 3 4					

^{***} Includes the whole month of December / January.

PSA1.2.3.11 ORDERING OF DAYWORKS

Replace Clause A1.2.3.11 with the following:

PSA1.2.3.11 DAYWORKS

a. Scope

Rates for daywork shall be entered in the under item C1.2.8.1 in accordance with the following specifications.

b. Daywork Rates

According to Clause 6.5 of the General Conditions of Contract 2015, certain work may be carried out using rates tendered in the daywork schedule. A schedule of personnel, construction equipment and vehicles which may be required to perform work on a daywork basis is included in the Bill of Quantities. The quantities used in the Bill of Quantities are for tender evaluation purposes only and the use or not of these items shall not constitute a variation in terms of Clause 6.3 of the General Conditions of Contract 2015.

No work will be paid for as daywork without the written instruction or approval of the Employer's Agent.

c. Type of Work

The Employer's Agent may order daywork in certain cases where it is necessary to vary or to extend the works due to new or unforeseen circumstances to such an extent that the tendered rates for specific items of work are no longer applicable, or where no suitable combination of tendered rates can be used to pay for such work.

As a general rule, applicable rates for additional work items will be agreed between the Contractor and the Employer's Agent. Daywork will only be used in exceptional circumstances.

d. Materials

Materials for use in works carried out under daywork shall be purchased by the Contractor who shall also arrange for delivery to site and shall be responsible for any other requirements associated with specific materials. A Provisional Sum has been allowed in C1.2.8 of the Bill of Quantities for

daywork materials. The Contractor shall enter a tendered percentage in the Bill of Quantities to cover his handling costs and profit, as per other provisional and prime cost sums in this Contract.

Materials shall be paid for using the method described in C2.1, 'Pricing Assumptions'. No contract price adjustment will be applicable to materials.

The Contractor shall submit proof of ownership for any materials used in daywork with his daywork claim to the Employer's Agent. Further, if specific materials are required for daywork, quotations will be called for as per Clause 6.5.2 of the General Conditions of Contract 2015.

e. Construction Equipment

Where daywork is ordered, the tendered rates for construction equipment in C1.2.8 of the Bill of Quantities shall be used in calculating the payment due for any construction equipment required to execute the daywork. If no rate is included in the Bill of Quantities for a particular item of construction equipment, and where no other rate or combination of rates would provide suitable compensation, then the daywork method of payment described in Clause 6.5.1.3 of the General Conditions of Contract 2015 will be used.

The tendered rates for each item of construction equipment shall include for all operating costs associated with the said item of construction equipment. Such costs are deemed to include fuel, refuelling costs, lubrication and routine servicing / maintenance, breakdowns and spares, all overhead costs, site management costs and administration costs. The tendered rates shall also include the construction equipment operator and the general supervision of the construction equipment while it is engaged in the daywork.

f. Salaries and Wages of Workmen

The salaries and wages of workmen executing daywork shall be paid for using the tendered rates in the Bill of Quantities. The tendered rates shall include for all costs associated with the employment of personnel, including salaries, wages, allowances, workmen's compensation, medical aid and pension contributions, government levies and taxes, training costs and any costs associated with living on the site. The tendered rates shall also include for the transportation of the workmen to the site of the daywork.

All overhead costs, administration costs, site management costs and the Contractor's profit are deemed to be covered by the daywork rates and no additions or mark ups will be made to the tendered rates.

The tendered rates shall also include any hand tools normally associated with the workmen's job description e.g. picks, shovels, hammers, saws and spirit levels. The tendered rate for labourers shall also include for the casual supervision by a gang leader or foreman. Only when specifically called for by the Employer's Agent, will payment be made for the use of a gang leader or foreman supervising on a continuous basis.

g. Measurement and Payment

The following principles shall also apply to the measurement and payment of daywork.

The unit of measurement for construction equipment shall be the number of Vibroclock hours worked and each item of construction equipment shall be fitted with a Vibroclock, the cost of which shall be included in the rates. Excessive non-productive time when the engine is idling will not be paid for. Where there is ambiguity between the flywheel horsepower and mass of the machine, the flywheel horsepower shall govern the measurement category. Where width and mass are specified, mass shall govern the measurement category.

The Contractor's attention is drawn to the requirements of Clauses 6.5.3 and 6.5.4 of the General Conditions of Contract 2015 with regard to the submission of lists and statements of personnel, materials and construction equipment used for daywork.

The payment items under C1.2.8 in the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020 will be applicable.

PSA1.2.3.18 Stakeholder liaison

Add the following to Clause A1.2.3.18:

a. Project Liaison Committee

The process of implementing infrastructure projects will be undertaken by means of structured engagement between those responsible for the delivery of the project and the community.

A Project Liaison Committee (PLC) is a vital means of communication between the parties involved with the project. A PLC may be formed if the project is such that a specific community can be identified.

The PLC comprises representatives of the employer, the engineer and formal structures within the community. The contractor shall make use of these communication channels, and shall appoint from amongst his site personnel a responsible person to participate in the affairs of the PLC, and this representative shall also attend the monthly PLC meetings when so requested.

The PLC shall meet at least once every month until such time as it is of the opinion that it could fulfil its tasks by meeting less frequently.

The PLC deals with local labour on the project, and is tasked with:

- assisting with community liaison and the resolution of community disputes;
- devising fair and transparent procedures that will assist the contractor in the engagement of labour:
- · advising on and monitoring labour issues; and
- assisting in the resolution of labour disputes.

All labour recruitment, employment and associated risks shall remain the sole responsibility of the contractor.

A new pay item is included in Chapter 1.2 of the schedule of quantities relating to the payment of the PLC on a provisional sum basis. Payment under this item shall be made only for the period for which the duties of the PLC are required, and not necessarily for the full duration of the contract.

b. Community Liaison Officer (CLO)

The contractor, after consultation with the Project Liaison Committee (PLC), shall appoint a ccompetent local person as a Community Liaison Officer (CLO). The contractor shall appoint the CLO as part of his site personnel, and shall direct all his liaison efforts with the local community through the appointed CLO.

The period of employment and the remuneration of the CLO shall be determined jointly by the contractor, the engineer and the employer.

The CLO shall:

- i. represent the community and assist the contractor, the engineer and the employer with communication between them and the community;
- ii. work an 8-hour day with a total of 40 hours worked per week, and shall be present on site each day except when performing off-site community liaison activities;
- iii. communicate daily with the contractor on labour related issues such as numbers and skill;

- iv. assist in the identification and screening of local labourers from the community in accordance with the contractor's requirements;
- v. inform local labour of their conditions of employment, including their period of employment;
- vi. attend disciplinary proceedings involving local labour, and ensure that hearings are fair and reasonable:
- vii. attend all meetings at which the community and/or local labour are present or are required to be represented;
- viii. attend monthly site meetings to report on community and local labour matters;
- ix. keep a daily written record of interviews and community liaison;
- x. submit monthly returns regarding community liaison; and
- xi. carry out all such other duties as agreed upon between all parties concerned.

A new pay item is included in Chapter 1.2 of the schedule of quantities relating to the payment of the CLO on a provisional sum basis. Payment under this item shall be made only for the period for which the duties of the CLO are required, and not necessarily for the full duration of the contract.

Add the following new Clause A1.2.3.24:

PSA1.2.3.24 Compliance with the Road Traffic Act

When a service necessitates vehicles or plant travelling or working on a public road, the following shall apply:

- The vehicles and plant shall be licensed in terms of the National Road Traffic Act 1996 (Act No. 93 of 1996) as amended.
- Every driver and operator of a vehicle or an item of plant shall be in possession of a valid permit in respect of the class of vehicle or item of plant he / she is driving or operating.

The Contractor shall provide, erect and maintain sufficient road signs, barricades, fencing and guarding as may be necessary or required by the Employer's Agent or by any act, regulation or statutory authority in order to minimise the danger and inconvenience caused to vehicle and pedestrian traffic. The Contractor by accepting this contract shall be deemed to have indemnified the Employer and the Employer's Agent against any claims, damages and / or costs that may arise in this regard.

Add the following new payment item.

PSC1.2 MEASUREMENT AND PAYMENT

Item Unit

PSC1.2.10 Community Participation

- (a) Cost for community Participation (PLC and CLO)...... Prime Cost Sum
- (b) Handling costs and profit in respect of sub-item PSC1.2.10(a) abovepercentage (%)

Expenditure under this item shall be made in accordance with clause 6.6 of the General Conditions of Contract 2015.

The tendered percentage is a percentage of the amount of expenditure approved by the Employer's Agent under sub-item PSC1.2.10(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the provision of a Community Liaison Officer."

CHAPTER 1.5 ACCOMMODATION OF TRAFFIC

PART C: MEASUREMENT AND PAYMENT

Add the following new payment item.

PSC1.5 MEASUREMENT AND PAYMENT

Item Unit

PSC1.5.13 Blading by road grader

PSC1.5.13.1. Blading by road grader of >6m

a) Machine Trimming: Normal Blading – 3% - without Watercart kilometre (km)
 b) Machine Trimming: Dry Road Blading using Watercart – 3% kilometre (km)

PSC1.5.13.2 Blading by road grader of <6m

a) Machine Trimming: Normal Blading – 3% - without Watercart kilometre (km)
 b) Machine Trimming: Dry Road Blading using Watercart – 3% kilometre (km)

The tenderer is to assume that it will take 4 passes with a grader to achieve the desired road profile, a further 4 passes with the grader to spread the fines and a further 2 passes to achieve the required finish. The rate for Dry Road Blading shall include the utilisation of a Water sprinkler to thoroughly water the full width of gravel layer by making sufficient passes as required, ahead of the grader. The rate shall include for Travelling to and from the Contractor camp. The measurement will be the km of completed road. The rate shall further include for the removal and cleaning of any spillage of material into existing structures and catch pits.

PSC3.3 Sidewalks

Item

PSC 3.3.7 Construction of sidewalk

square meter (m²)

a) Trimming for sidewalks

square meter (m²)

Unit

b) Formworkc) Cast insitu concrete

cubic metre (m³)

d) Steel reinforcement

kilo grams (kg)

The tender rate shall include full compensation to procurement materials, small tools, labour, and any other additional works required for construction of sidewalks, such as concrete, formwork, mesh wire ref 1.93, sealed joints and steel pegs. All panels shall be 2m in length and 1.5 wide. These shall also include the backfilling of unevenness excavation not exceeding 30mm depth, all items for sidewalks will be measured separately as measured in Bill of Quantities. All construction joints must be placed at 2m interval while expansion joints are constructed at 12m interval.

PSC3.3.16 Trimming of excavation for open lining drain

The tenderer shall include procurement of small tools, labour and any other additional works required for trimming excavated material for open drains to a standard finish required for construction of concrete lining drains, these shall also include the backfilling of unevenness excavation to a minimal not exceeding 30mm depth, hence the rate should also include trimming in intermediate or hard material

CHAPTER 4.3 EXISTING PAVEMENT LAYERS

Add the following new payment item.

PSC4.3.20. Re-instating the damaged paving blocks use as parking's

a) Paving blocks

square meter (m²)

The tendered rate shall include full compensation for providing all the material, transport, work in restricted areas, machinery, equipment, labour, supervision, excavating and reinstating the paving blocks using crushed stone as the base and replacing damage paving blocks.

CHAPTER 8.8 PATCHING AND EDGE BREAK REPAIR

Add the following new payment item.

PSC8.8.7.4. Temporary cold mix plug

b) Patches less than 1m²

square meter (m²)

c) Patches greater than 1m² but not exceeding 2m²

square meter (m²)

The tendered rate shall include full compensation for providing all the material, transport, work in restricted areas, machinery, equipment, labour, supervision, excavating and removing the existing premix surface and lose material to an overall depth of approximately 100mm, scarifying and removal of all loose material and dust by means of sweeping/brushing. Prepare the surface with 0.55l/m2 of 60% anionic Bitumen emulsion tack coat to be verified with the engineer and backfilling the area with approved cold mix Asphalt with a maximum aggregate size of 10mm and in accordance with TRH 8, compacted to a density of 97 % Rice – design voids, to 5mm above the existing road surface level. All Potholes are required to be patched within 24 hours from the time that the pothole is reported to the contractor.

CHAPTER 11.3 GUIDE BLOCKS AND KILOMETRE MARKER

Add the following new payment item.

PSC11.3 MEASUREMENT AND PAYMENT

Item Unit

PSC11.3.4 Repainting of Kilometre Post

Number (No)

The unit of measurement shall be the number of Kilometre posts painted.

The tendered rate shall include full compensation for all labour and material and painting, as may be necessary for completing the work in accordance with the details shown on the drawings (SD1003/B).

Add the following new chapter.

CHAPTER 15.1 CHEMICAL CONTROL OF UNDESIRABLE VEGETATION

PS PART A: SPECIFICATION

PSA15.1.1 SCOPE

This specification covers the chemical eradication of declared and undesirable vegetation as well as the chemical control of vegetation growth, through the application of herbicide.

PSA15.1.2 EXECUTION OF WORK

The Contractor's attention is drawn to the requirement that, prior to carrying out any spraying with herbicide, he/she, together with 3 assistants, shall be required to attend a 3- to 5-day accredited training workshop.

The registered Contractor shall be at the site of application at all times during spraying and shall ensure that no damage is caused to other plants inside or adjacent to the treated areas as a consequence of the application of herbicides.

Application shall not be carried out in high winds or wet weather.

The Contractor shall assess the number of different types of places where application of chemicals will be required and to make provision accordingly for the fluctuating chemical demand per section of road. The herbicide shall be strictly applied at the rate recommended by the manufacturer.

a. Control of vegetation growth

Subject to approval by the Engineer beforehand, spraying shall be executed in the following designated areas:

- i. Shoulder weed spray shall involve the spraying of a 300 mm wide strip of herbicide, 100mm of which will be on the surfaced shoulder and 200 mm on the gravel shoulder;
- ii. Vegetation under guard-rails shall be controlled by spraying under the guard-rail to a minimum width of 500 mm:
- iii. Openings, cracks and joints between the road pavement and concrete, on joints and cracks of concrete drainage channels as well as between paving stones and concrete blocks, to a minimum width of 100 mm:
- iv. Up to a minimum distance of 300mm around the poles at kilometre markers, road signs and guard-rail posts;
- v. On block paved areas; and
- vi. Between the road and the road reserve fence or neighbouring fence or wall.

b. The eradication of undesirable vegetation

The eradication of declared and undesirable vegetation shall take place in the road reserve over the whole length of the section of road involved and may include localised patches of noxious weeds, invader plants and other undesired vegetation.

The Contractor shall ensure that no damage whatsoever is caused to any plants inside or adjacent to the areas treated because of the application of the herbicides, either during or after application. This also includes areas outside the road reserve.

Below is a list of preferred chemicals to be used in the various applications.

Verge Application						
Product Active ingredients:						
Tumbleweed (L4781)	Glyphosate 240g/L					
Invade (L10093)	lmazapyr 250g/L					

Outpace Flo (L4760)	Simazine 250g/L + Terbuthylazine 250g/L				
Booster AS (L6182)	Ammonium Sulphate 500g/L				
<u>Noxio</u>	ous weed Control				
Frixon (L8399)	Fluroxypyr 200g/L				
Picloram (L8299)	Picloram 240g/L				
Viroaxe (L6663)	Triclopyr 480g/L				
Ambition (L7678)	Metsulfuron - Methyl 600g/L				
Booster Oil (L6148)	Vegetable Oil 851g/L				
Cuts	tump Treatment				
Invade (L10093)	lmazapyr 250g/L				
Booster Oil (L6148)	Vegetable Oil 851g/L				
Dye (Stump marker)	Pigment dye				

Prior to commencement with application of any herbicide, a registration document from the Department of Agriculture must be provided to the Employers Agent for each chemical to be used. The Employers Agent will approve the use of the specific chemical prior to commencement.

PSA15.1.3 ACCEPTANCE CRITERIA

Eradication of undesired vegetation shall be carried out as specified and to the satisfaction of the Engineer. The herbicide shall be applied at the correct rate to prevent re-growth and the application confined to the undesired vegetation.

Areas shall be left neat and tidy and all vegetation cuttings removed unless otherwise instructed.

PSA15.1.4 CONSTRUCTION EQUIPMENT

Vegetation shall be eradicated using knapsacks or portable weed-spray machines.

It is important that the equipment be in good working condition. The equipment shall distribute the herbicide evenly without spilling. The nozzle shall be able to move close to the ground in order to prevent mist spray blowing away and killing plants which gave to be maintained. The equipment shall also be safe for the workers as well as for the travelling public. The Contractor shall ensure that all persons dealing with herbicides are supplied with hats, gloves, boots, goggles, face masks and safety vests and that they always wear them whilst working.

PS PART B: MEASUREMENT AND PAYMENT

Add the following payment items:

Item Unit

PSC15.1.1: Chemical Control of undesirable vegetation

- a) Shoulder Weed Spray: 300mm wide meter (m)
- b) Under Guardrails: 500mm wide meter (m)
- c) Openings, crack and joints: 100mm wide meter (m)
- d) Around poles, Kilometre markers, road signs, guardrail posts. The area around the signs and kilometre posts are required to be a 2m radius.
- e) Blocked paved and other paved areas square meter (m²)
- f) Along the Road Reserve

i. Isolated Areas square meter (m²)

ii. Dense areas (areas more than 20% infested)hectare (ha)The unit of measurement for subitems PSC15.1.1(a) to (c) shall be the metre of control of weeds to the specified width.

The unit of measurement for sub-items PSC15.1.1(d) shall be the number of poles, road markers, road signs and guard-rail posts sprayed around.

The unit of measurement for sub-items PSC15.1.1(e) and (f) shall be the square metre of control of vegetation and eradication of weeds.

The unit of measurement for sub-item PSC15.1.1(g) shall be the hectare of control of vegetation and eradication of weeds. The areas will be measured by dense hectare (the percentage of infestation per hectare). For payment, the rate per hectare will be that multiplied by the percentage infestation.

The tendered rates shall include full compensation for all labour, equipment and minor material (herbicide shall be supplied by the Employer) required for control of vegetation and eradication of weeds in accordance with the manufacturer's specifications and inclusive of any costs arising from restricted working conditions due to the nature of the site or traffic flow.

Payment shall be made as follows:

- (a) 60% shall be payable when visible results are obtained
- (b) The remaining 40% shall be payable when at least 90% of the treated vegetation has been controlled in the opinion of the Engineer

C3.3: PARTICULAR SPECIFICATIONS

In addition to the Standard Specifications and the Project Specifications, the following Particular Specifications shall apply to this contract and are bound in hereafter:

PART C:	ENVIRONMENTAL MANAGEMENT SPECIFICATION	C88
PART D:	DAYWORK	C94
PART E:	OHSA 1993 HEALTH AND SAFETY SPECIFICATION	C97
PART F:	EXPANDED PUBLIC WORKS PROGRAMME	C140
PART G	SMALL CONTRACTOR DEVELOPMENT	C176

3.3 PARTICULAR SPECIFICATIONS

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

PART C: ENVIRONMENTAL MANAGEMENT SPECIFICATION

C1. SCOPE

The Employer recognises environmental management as a key component of road infrastructure development and as part of its environmental policy has developed this environmental management specification as a tool for continual improvement in environmental performance.

This environmental management specification prescribes the methods by which proper environmental controls are to be implemented by the Contractor. The duration over which the Contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the General Conditions of Contract 2015 as the Defects Notification Period (maintenance period).

C2. ENVIRONMENTAL MANAGEMENT PLAN

In order to ensure that the construction work is carried out in an environmentally sensitive manner, strict compliance with the Environmental Management Plan (EMP) guidelines is required. The purpose of the EMP is to:

- Encourage good management practices through planning and commitment to environmental issues.
- Provide rational and practical environmental guidelines to:
 - (i) Minimise disturbance of the natural environment,
 - (ii) Prevent pollution of land, air and water,
 - (iii) Prevent soil erosion and facilitate re-vegetation.
- Adopt the best practicable means available to prevent or minimise adverse environmental impact,
- Develop waste management practices based on prevention, minimisation, recycling, treatment or disposal of wastes.
- Train employees and contractors with regard to environmental obligations.

C3. ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS

The Contractor is responsible for the implementation of this EMP to ensure sound environmental management during the construction phase of a project.

The Contractor shall receive and implement any instruction issued by the Employer's Agent relating to compliance with the EMP including the removal of personnel or equipment.

Compliance with the provisions contained herein or any condition imposed by the environmental approvals, shall become the responsibility of the Contractor through an approved Environmental Officer (EO). The Contractor shall nominate a person from among his site personnel to fulfil this function and submit to the Employer's Agent for his approval the curriculum vitae of the proposed EO. This request for approval shall be given, in writing, at least fourteen days before the commencement of any construction activity clearly setting out reasons for the nomination, and with sufficient detail to enable the Employer's Agent to make a decision.

Once a nominated representative of the Contractor has been approved as the EO, the EO shall be the responsible person for ensuring that the provisions of this EMP are complied with for the duration of the contract. The EO shall submit monthly written reports of compliance with the EMP to the Employer's Agent.

In addition to the compliance duties relating to this EMP, the EO shall also provide full cooperation whenever the Contractor is subjected to regular environmental audits.

C4. TRAINING AND INDUCTION OF EMPLOYEES

The Contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes subcontractors and local labour). The EMP shall be part of the terms of reference for all contractors, subcontractors and suppliers.

C5. COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the public will be recorded. The complaint should be brought to the attention of the Construction Manager, who will respond.

The following information must be recorded:

- Time, date and nature of the complaint,
- Type of communication (telephone, letter or email).
- Name, contact address and telephone number of the complainant,
- Response and investigation undertaken, and
- Actions taken and by whom.

All complaints received will be investigated and a response given to the complainant within 14 days.

All environmental incidents occurring on the site will be recorded. The following information will be provided:

- Time, date, location and nature of the incident, and
- Actions taken and by whom.

C6. SITE CLEANLINESS AND NEATNESS

- Location of a construction camp is to be approved by the Employer's Agent and is to be restored to its previous condition after completion of construction.
- The construction camp should preferably be fenced with a 1,8m Bonnox fence or similar approved.
- All materials, equipment, plant and vehicles must be stored within the construction camp.
- A dedicated area must be made available for construction staff to change and store their personal belongings.

C7. ACCESS

- Access to existing roads, schools, buildings, shops and residential properties must not be impeded during construction.
- Access roads utilised by the Contractor must be maintained in good condition.

C8. BORROW PITS

- Mining authorisations (permits) for borrow pits must be obtained from the Department of Mineral Resources (DMR) in consultation with the Department of Water and Sanitation (DWS).
- Spoil dumps resulting from borrow pits must not interfere with any natural surface drainage.
- Borrow pits must be rehabilitated after use in accordance with the requirements of DMR and DWS.

C9. DUST CONTROL / AIR QUALITY

- Dust suppression measures must be implemented during construction by ensuring that all surfaces prone to dust generation are kept damp (e.g. use of water tanker).
- Ensure that vehicles and equipment are in good working condition and that emissions are not excessive.
- Special care must be taken in areas where the route passes close to schools and residential areas.
- The speed of construction vehicles must be reduced.

C10. FAUNA

 Contractors' and subcontractors' staff and workers may not chase, catch or kill animals encountered during construction.

C11. FIRE PREVENTION AND CONTROL

- Smoking is prohibited in the vicinity of flammable substances.
- The Contractor must ensure that fire-fighting equipment is available on site, particularly where flammable substances are being stored or used, and that construction staff are aware of where it is kept and how it is operated.
- Fires started for comfort (warmth) are prohibited, due to the risk of veld fires and risk to adjacent property owners' lands.

C12. GRAVE SITES

Grave sites in close proximity to the road must not be disturbed during construction.

C13. MATERIALS HANDLING AND SPILLS MANAGEMENT

- Any hazardous materials to be used during construction (e.g. lime, fuel and paint) are to be stored in a designated area at the campsite.
- The storage containers/facilities (including any diesel or petrol tanks) must be placed on an impermeable surface and surrounded by a bund wall, in order to ensure that accidental spillage does not pollute the environment.
- Workers must at all times be made aware of the health and safety risks associated with any hazardous substances used (e.g. smoking near fuel tanks), and must be provided with appropriate protective clothing/equipment in case of spillages or accidents.
- Ensure all staff and contractors undergo relevant training in the maintenance of equipment to prevent the accidental discharge or spill of fuel, oil, lubricants and other chemicals.
- Any spill of potentially hazardous materials must be cleaned up immediately (potentially hazardous materials on site include paint, oil, grease, fuel and turpentine).
- The area of contaminated soil or spill must be deposited into the hazardous waste container(s).
- The Contractor should keep Peat Sorb or a similar absorbent on site to clean up any spills. The absorbent must be stored in a designated area and be available for inspection.
- All spills are to be recorded in the environmental incident book.

C14. NOISE

- Noise generating activities must be restricted to between 07:00 and 17:00 Monday to Friday, unless otherwise approved by the appropriate competent person in consultation with adjacent landowners/affected persons.
- All equipment, vehicles and machinery must be in good working condition and be equipped with sound mufflers if necessary.
- Construction staff must be trained and made aware of not creating unnecessary noise such as hooting and shouting.

C15. POLLUTION CONTROL

- Soil and water pollution through usage of fuel, oil, paint, bitumen or other hazardous substances must be avoided.
- All construction vehicles are to be maintained in good working order so as to prevent soil or water pollution from oil, fuel or other leaks, and to reduce noise pollution.

C16. RIVERS AND STREAMS

- During construction of bridge structures, there must be no obstruction of the water flow of rivers and streams.
- Excavated material must not be stockpiled on or near riverbanks, in order to prevent sedimentation occurring.

- Erosion control measures must be employed both during and after construction.
- No impediments to natural surface water flow, other than approved erosion control measures, must occur.

C17. SAFETY

- Safety measures, such as detour signs, must be implemented during construction to ensure the safety of workers, pedestrians and drivers/passengers in vehicles in the vicinity of construction work.
- Special care must be taken in the vicinity of schools to ensure the safety of children wishing to cross the road under construction.
- The relevant signage (e.g. speed control signs) must be erected alongside the road during the operation phase in order to control traffic.
- Accommodation must be made for pedestrian pathways alongside the road during the construction and operation phases.

C18. SOIL MANAGEMENT

- Storm water drainage pipes must be installed alongside the road in all areas susceptible to soil erosion.
- Erosion should be minimised by the construction of meadow drains and the planting of indigenous vegetation on the side slopes and drains to reduce flow velocity of storm water.
- Spoil from cuts may be used in existing erosion gullies.
- Stone pitching and gabions should be constructed at pipe culvert outlets.
- Accidental spills of contaminants onto the ground e.g. oil, concrete, fuel and chemicals should be removed together with the contaminated soil.
- If necessary, an absorbent such as Peat Sorb should be used to aid in cleaning up the spill. The contaminated soil should be disposed of in an appropriate container, depending on its classification.
- Servicing and refuelling of vehicles must only be carried out at the construction camp.

C19. WORKER CONDUCT

Code of Conduct for Construction Personnel:

- Do not leave the construction site untidy and strewn with rubbish which will attract animal pests.
- Do not set fires.
- Do not cause any unnecessary, disturbing noise at the construction camp/site or at any designated worker collection/drop off points.
- Do not drive a construction-related vehicle under the influence of alcohol.
- Do not exceed the national speed limits on public roads or exceed the recommended speed limits on the site.
- Do not drive a vehicle which is generating excessive noise or gaseous pollution (noisy vehicles must be reported and repaired as soon as possible).
- Do not litter along the roadsides, including both the public and private roads.
- Do not pollute any water bodies (whether flowing or not).
- No member of the construction team is allowed to enter the areas outside the construction site.

C20. TRAFFIC DISTURBANCES AND DIVERSIONS

- Any traffic diversions must be undertaken with the approval of all relevant authorities and in accordance with all relevant legislation.
- Wherever possible, traffic diversion must only take place on existing disturbed areas and remain within the existing road reserve.
- Traffic diversion routes must be rehabilitated after use.

C21. VEGETATION

- Only vegetation falling directly on the route must be removed where necessary.
- Alien vegetation within the road reserve must be eradicated, and management measures must be

- implemented for future control of these species.
- Vegetation that has been removed from large areas (e.g. on traffic diversion routes) during construction must be replaced with indigenous vegetation after construction has been completed.

C22. WASTE MANAGEMENT

- All general, non-hazardous waste must be placed in a skip container and disposed of at a registered waste disposal site.
- The Contractor is to ensure that the portable toilet facilities at the campsite are properly maintained and in working order.
- No disposal, or leakage, of sewage must occur on or near the site.
- All hazardous waste (e.g. oil, paint, empty lime bags, and contaminated wash water) must be stored
 in leakproof containers and disposed of at a registered hazardous waste disposal site.
- The contents of waste storage containers must, under no circumstances, be emptied to the surrounding area. In general, littering, discarding or burying of any materials is not allowed on site or along the route.
- Adequate waste receptacles must be available at strategic points around the construction camp and site for all domestic refuse and to minimise the occurrence of littering.
- Concrete rubble must be collected and disposed of as directed by the Employer's Agent.
- Each working area must be cleared of litter and building waste (e.g. rubble, wood and concrete packets) on completion of the day's work.
- Any spill around the container(s) should be treated as per clause C13 and C18.

C23. MEASUREMENT AND PAYMENT

The contractor shall make provision in the various rates and prices for all costs related to the environmental management specification and measures required in terms of legislation. Provision is made in item B13.02 of the Bill of Quantities for the contractor's general obligations, risks and liabilities in accordance with the environmental management specification.

3.3 PARTICULAR SPECIFICATIONS

PART D: DAYWORK

PART D: DAYWORK

D1. SCOPE

This part deals with the provision for daywork in the Bill of Quantities. Rates for daywork shall be entered in the Bill of Quantities in accordance with the following specifications.

D2. DAYWORK RATES

According to Clause 6.5 of the General Conditions of Contract 2015, certain work may be carried out using rates tendered in the daywork schedule. A schedule of personnel, construction equipment and vehicles which may be required to perform work on a daywork basis is included in the Bill of Quantities. The quantities used in the Bill of Quantities are for tender evaluation purposes only and the use or not of these items shall not constitute a variation in terms of Clause 6.3 of the General Conditions of Contract 2015.

No work will be paid for as daywork without the written instruction or approval of the Employer's Agent.

D3. TYPE OF WORK

The Employer's Agent may order daywork in certain cases where it is necessary to vary or to extend the works due to new or unforeseen circumstances to such an extent that the tendered rates for specific items of work are no longer applicable, or where no suitable combination of tendered rates can be used to pay for such work.

As a general rule, applicable rates for additional work items will be agreed between the Contractor and the Employer's Agent. Daywork will only be used in exceptional circumstances.

D4. MATERIALS

Materials for use in works carried out under daywork shall be purchased by the Contractor who shall also arrange for delivery to site, and shall be responsible for any other requirements associated with specific materials. A Provisional Sum has been allowed in Section D of the Bill of Quantities for daywork materials. The Contractor shall enter a tendered percentage in the Bill of Quantities to cover his handling costs and profit, as per other provisional and prime cost sums in this Contract.

Materials shall be paid for using the method described in C2.1, 'Pricing Assumptions'. No contract price adjustment will be applicable to materials.

The Contractor shall submit proof of ownership for any materials used in daywork with his daywork claim to the Employer's Agent. Further, if specific materials are required for daywork, quotations will be called for as per Clause 6.5.2 of the General Conditions of Contract 2015.

D5. CONSTRUCTION EQUIPMENT

Where daywork is ordered, the tendered rates for construction equipment in Section D of the Bill of Quantities shall be used in calculating the payment due for any construction equipment required to execute the daywork. If no rate is included in the Bill of Quantities for a particular item of construction equipment, and where no other rate or combination of rates would provide suitable compensation, then the daywork method of payment described in Clause 6.5.1.3 of the General Conditions of Contract 2015 will be used.

The tendered rates for each item of construction equipment shall include for all operating costs associated with the said item of construction equipment. Such costs are deemed to include fuel, re-fuelling costs, lubrication and routine servicing / maintenance, breakdowns and spares, all overhead costs, site management costs and administration costs. The tendered rates shall also include the construction equipment operator and the general supervision of the construction equipment while it is engaged in the daywork.

D6. SALARIES AND WAGES OF WORKMEN

The salaries and wages of workmen executing daywork shall be paid for using the tendered rates in the Bill

of Quantities. The tendered rates shall include for all costs associated with the employment of personnel, including salaries, wages, allowances, workmen's compensation, medical aid and pension contributions, government levies and taxes, training costs and any costs associated with living on the site. The tendered rates shall also include for the transportation of the workmen to the site of the daywork.

All overhead costs, administration costs, site management costs and the Contractor's profit are deemed to be covered by the daywork rates and no additions or mark ups will be made to the tendered rates.

The tendered rates shall also include any hand tools normally associated with the workmen's job description e.g. picks, shovels, hammers, saws and spirit levels. The tendered rate for labourers shall also include for the casual supervision by a gang leader or foreman. Only when specifically called for by the Employer's Agent, will payment be made for the use of a gang leader or foreman supervising on a continuous basis.

D7. MEASUREMENT AND PAYMENT

The following principles shall also apply to the measurement and payment of daywork.

The unit of measurement for construction equipment shall be the number of Vibroclock hours worked and each item of construction equipment shall be fitted with a Vibroclock, the cost of which shall be included in the rates. Excessive non-productive time when the engine is idling will not be paid for. Where there is ambiguity between the flywheel horsepower and mass of the machine, the flywheel horsepower shall govern the measurement category. Where width and mass are specified, mass shall govern the measurement category.

The Contractor's attention is drawn to the requirements of Clauses 6.5.3 and 6.5.4 of the General Conditions of Contract 2015 with regard to the submission of lists and statements of personnel, materials and construction equipment used for daywork.

C3.3 PARTICULAR SPECIFICATIONS

PART E:	OHSA 1993 HEALTH AND SAFETY SPECIFICATION

PART E: OHSA 1993 HEALTH AND SAFETY SPECIFICATION

E1. SCOPE

This part covers the health and safety requirements to be met by the Contractor to ensure a continued safe and healthy working environment for all employees, subcontractors, the Employer, the Employer's Agent, inspectors and all other persons entering the site of works.

This specification shall be read in conjunction with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993 and amendment Act No 181 of 1993) and the corresponding Construction Regulations 2014, and all other safety codes and specifications referred to in the said Act and Construction Regulations.

In terms of the OHSA Agreement in Section C1.4 of the Contract document, the status of the Contractor as mandatary to the Employer (client) is that of an employer in his own right, responsible for compliance with all provisions of OHSA 1993 and the Construction Regulations 2014.

This specification and the Contractor's own Health and Safety Plan as well as the Construction Regulations 2014, shall be displayed on site or made available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representatives of trade unions and any other persons entering the site of works.

E2. DEFINITIONS

For the purpose of this contract the following shall apply:

- E2.1 "Construction Health and Safety Agent" (CHSA) means any competent person who acts as a representative for the Employer in managing health and safety on a construction project for the Employer and who has satisfied the registration criteria of the SACPCMP to perform the required functions.
- E2.2 "Contractor" where used in the contract documents and in this specification, means the Contractor as defined in the General Conditions of Contract 2015, and it shall have the exact same meaning as "principal contractor" as defined in the Construction Regulations 2014. "Contractor" and "principal contractor" are therefore interchangeable and shall be read in the context of the relevant document.

In this specification the terms "principal contractor" and "contractor" are replaced with "Contractor" and "subcontractor" respectively.

For the purpose of this contract the Contractor will, in terms of OHSA 1993, be the mandatary, without derogating from his status as an employer in his own right.

- E2.3 "Employer" where used in the contract documents and in this specification, means the Employer as defined in the General Conditions of Contract 2015 and it shall have the exact same meaning as "client" as defined in the Construction Regulations 2014. "Employer" and "client" are therefore interchangeable and shall be read in the context of the relevant document.
- E2.4 "**Employer's Agent**" where used in this specification, means the Employer's Agent as defined in the General Conditions of Contract 2015.

E3. EMPLOYER'S BASELINE RISK ASSESSMENT

E3.1 Risk information

The information presented in this clause is based on the Employer's baseline risk assessment prepared specifically for this contract.

This information describes the type of work required in terms of this contract that will be accompanied by dangers, hazards and risks which the Contractor shall be required to identify, analyse, manage, monitor and review in terms of the Health and Safety Plan and risk assessments.

This information is neither prescriptive nor exhaustive, and is provided as a guideline to Tenderers in preparing their tender submissions, and to the successful Contractor as a basis for the preparation of the site-specific risk assessments to be performed by the Contractor in terms of Construction Regulation 9.

Tenderers shall make their own assessment of the dangers, hazards and risks that can be expected during the course of this contract, which may include dangers, hazards and risks not identified in the baseline risk assessment, including those that may arise from specific methods of construction employed by the Contractor, and shall make due allowance in their tendered rates and prices for all costs related to complying with the provisions of the Act and Construction Regulations.

This information is given in good faith for the guidance of Tenderers, and no additional payment shall be made as a result of any inaccuracies, discrepancies or omissions contained therein.

E3.2 Baseline risk assessment

The following is a list of risks identified which forms the Baseline Risk Assessment for the project prepared by the Employer in terms of Construction Regulation 5(1)(a).

Table 1: Risk Rating Matrix

Consequence	<u>Probability</u> (P)							
(C)	1	2	3	4	5			
4	M	Н	Н	н	н			
3	М	М	М	н	Н			
2	L	M	M	M	E			
1	L	L	M	M	M			

Table 2: Risk Rating (R) Definitions

PROBABILITY CATEGORY	DEFINITION
5	Possibly repeated incidents
4	Isolated incidents known to have occurred
3	Possibility of occurring sometime
2	Unlikely to occur
1	Practically impossible
CONSEQUENCY CATEGORY	DEFINITION
4	Serous long- or short-term safety and health
	effects that may be fatal
3	Serious adverse safety and health effects that
	would require offsite medical attention
2	Non-life-threatening safety and health effects
	that may require on site first aid treatment
1	Little if any adverse safety and health effects

3. CONTRACT BASELINE RISK ASSESSMENT

SITE ESTABLISHMENT

	POTENTIAL HAZARDS		F	RISE	〈	
ACTIVITY		HEALTH AND		<u> </u>	SIS	CONTROL MEASURES
7.0	IDENTIFIED	SAFETY AND RISKS	Р	С	R	
Establishm ent of the site	Existing services in the areas of establishment Insufficient space for safe and adequate allocation of offices, staff facilities, parking, workshops and traffic movement Unsafe ground conditions i.e., slopping ground	Damage/ disruption to existing services Property damage Injuries Fatalities	5	4	Н	Existing services to be located in areas identified for establishment and be addressed according to Engineers Specifications. Adequate space to be allocated for site establishment in consideration to facilities to be provided. Access roads, office areas, employees' facilities, parking areas and stacking areas to be properly designated.
						Ground surfaces to be stable with safe gradient and free from slipping, tripping and falling hazards.
Access control	Unauthorised access to sites	Loss of property Disruptions on site Injuries to unauthorised personnel Injuries to site personnel	3	3	M	Site to be fenced with bonox fence of 1.6 to 1.8 Lockable gates to be provided to control access. The site entrance to be provided with a warm body security who shall also record site entrance and exit activities.

ACTIVITY HAZARDS IDENTIFIED HEALTH AND SAFETY AND RISKS Placing of Insufficient information Disruptions 5 4 H Construction safety	VIEASURES
Disciplinate Institution information Discontinue 5 4 1 Construction and the	
signs and notices and warning on site requirements Injury to employees Injury to public Damage to property Damage to property Personal equipment include "s reflective signs"	d should contain mation minimum: tion activities horised entry nit 20 km / h protective nt signs which safety boots, vests & helmets o report t site ating manhour incidents / s to displayed at e of first aiders ers signs to be ney are located. In and all other signs as per be erected are the hazard

	POTENTIAL			RIS		
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND	P	ALY C	SIS R	CONTROL MEASURES
Delivery of containers	Soft, sloping grounds Non – complying	Property damage	5	4	Н	Ground where containers are to be placed to be stable to bear the intended weight
	delivery vehicles and machines Hitting overhead cables	Injuries Fatalities				Overhead cables to be identified and offloading to be not done under them.
	Employees walking under container once it is in the air					Lifting machines to comply with the mass loads designed to carry.
	Unsafe practices					Ropes and chains for the lifting machine to have a safety factor with respect to load they designed to lift.
						Lifting machines operators to have competency certificates from an Organisation approved by the Chief Inspector.
						Inspections to ensure all plant and equipment in the operation are safe for use and records to be kept on the file.
						Supervisor to ensure that the task is done in a safe manner. Banksman to be provided.
						Area to be demarcated, unauthorised personnel to be not allowed.
						Full PPE by personnel involved in the task; reflector vests, overalls, boots, hard hats and gloves.
						Safe working procedures to be provided
Temporal electrical	Uncertified installer	Electrocution	3	4	Н	All electrical installations to a conducted an electrician registered
installation	Loose wires exposed	Fire				with Department of Labour.
	Caples running over the ground	Property damage Tripping and				All cables to run safely underground Certificate of Compliance to be provided for all installations.
		falling				Temporal electrical installations to be inspected weekly by a competent person

	POTENTIAL	HEALTH AND		RISK	K 'SIS	
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND	P	C	R	CONTROL MEASURES
Bulk fuel storage	Leaks on the tanks Fire Explosions	Injuries and fatalities Damage to property Production downtime	5	4	H	Diesel tanks to be a distance of 10 metres away or more from any building and parking area. A slab with bund wall capable of carrying 110% of the tank capacity must be constructed for the tanks to stand in. Local Fire Inspector to approve bulk storage of diesel. Persons in charge of tanks should be inducted regarding all the hazards involved and how to control them. Fire extinguishers to be readily available near diesel tank storage area as per Local Fire Inspector recommendations. Signage to be displayed in the bulk diesel storage area; fire extinguisher signs, no naked or smoking in the vicinity sign. Diesel poring safe procedure to be displayed.
Provision of welfare facilities	Not of having essential services for health and wellbeing	Disease & infection Fatigue and dehydration Low moral Poor productivity	3	4	Н	Employees to have access to safe drinking water in all workstations. Changerooms with shower facilities must be provided on site Ablution facilities to be provided in all workstations as per legislation requirements and chemical ablutions to be serviced weekly. Ablutions to have toilet paper and be maintained in a hygienic manner. Sheltered eating areas with seats to be adequately provided for employees on site.

ACTIVITY	POTENTIAL	HEALTH AND		RISH ALY	K 'SIS	CONTROL MEASURES
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Emergency preparedn ess	Inability to attend to emergencies on site Remote site	Injuries Fatalities Property damage Emergency services taking long to reach site	5	4	H	Detailed emergency plan to be provided as per emergency situations that can be encountered which included: • Fire • Community unrests • Flash floods • Drowning • Structure collapse • Animal's encounter (snakes [research to be done of common snakes found in the area], bees and scorpions) The following emergency equipment to be provided: • Warning alarms • First aid kits to be provided • Fire extinguisher to be provided (dry chemical powder 9 kg) • Spill kits to be provided Competent team which includes emergency coordinator, first aiders and fire fighters to be appointed. Emergency drills to be conducted every six months. Site camp to have fire breaks along parameters, width to be 2.5 m width or more.

	POTENTIAL HEALTH AND ANALYSIS					
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS	P	С	R	CONTROL MEASURES
Stacking, storage and laydown of material	Inadequate space for storage various materials. Poor / unsafe storage of material	Accidents Damage to property	3	3	M	Allow sufficient space for lay down and storage of material and waste during planning stage of site layout. All material to be stacked within the barricaded sites boundaries.
	Poor housekeeping					Stacking, storage and laydown areas to have easy and safe access and be demarcated.
						Material that can roll down to be properly secured.
						Stacks to be not three times higher than the base.
						Hazardous chemical substances to be stored as per material safety data sheets.
						Good housekeeping to be maintained in the stacking areas
Adverse weather conditions during works	Extreme heat Slippery conditions during rain Thundering Extreme cold	Dehydration, fatigue, heat exhaust and heat stroke during extreme heat conditions Car accidents due slippery conditions and personnel slips and falls during rainy weather Personnel being struck by lightning Inability to properly grip hand tools due to cold weather thus injuries	5	4	H	Heat evaluation must be conducted on site. The following heat control measures must always be in place for works in hot environments: • Have certificates of medical fitness certifying them to work in that environment • Must be acclimatised for working in such environments • Must take 600 millilitres of water per hour First aid measures must be readily available for heat exhaust and heat stroke Works to be stopped during rainy and slippery days on the roads and site camp Works to stop during thundering and lighting conditions and employees to take shelter away from poles and trees. Employees to wear warm cloths and gloves during extreme cold days.

TRANSPORTATION OF EMPLOYEES

	POTENTIAL		R	ISK	ANALYSIS	
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Transporta tion of site employees	Non – compliant vehicles transporting employees Vehicle overturning or running out of control with employees Employees falling from vehicles	Injuries Fatalities Property damage	4	4	H	Vehicles transporting employees to be road worthy and compliant Construction Regulation's requirements. All employees to be seated during transportation and have seat belts on. Vehicle to obey road rules during transportation of employees. The PC shall not allow employees to be transported in a goods vehicle unless the portion of the vehicle in which the employees are being conveyed is enclosed to a height of: — • at least 350 mm above the surface on which employees are seated; or • at least 900 mm above the surface on which employees are standing, in a manner and with a material of sufficient strength to prevent employees from falling from such vehicle when it is in motion.

SITE CLEARANCE

	POTENTIAL				ISK	
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P	C	LYSIS R	CONTROL MEASURES
Clearing and grubbing	Faulty vehicle and plant	Property damage	4	4	Н	Method statement for site clearance to be provided.
	Employees working in the vicinity of plant	Injuries Fatalities				Construction plant and vehicle to adhere to legislation requirements.
	Faulty equipment and hand tools	Hearing loss				Competent and authorised personnel to operate equipment.
	Animals encounter (bees, snakes and scorpions encounter)	Nose and throat irritation, allergic reactions, silicosis				Safe and SABS approved equipment and tools to be used for the tasks, inspection records to be in place.
	Noise					Employees working in clearing and grubbing activities to wear PPE:
	Dust					- Long sleeves overalls
						- Ankle covering safety boots and leg protectors / steel toed gum boots
						- Long sleeves leather gloves
						- Helmets/ sun hats
						- Reflective vests
						Employees working near plan to be visible to operators and be vigilant,
						Emergency procedures for animals encounter to be developed. Common snakes in the area to be
Waste Management	Excessive accumulation of	Harbouring of animals i.e., snakes	3	3	M	identified. Cradle to grave waste management method statement to be provided
C	waste Improper storage of waste	Fire Tripping, falling & injuries				Waste must be continuously removed from workstations and be placed in dedicated areas as per EMPr
	Unapproved means of final disposal	injunios				Fire prevention plan must be developed
						Fire extinguishers must be readily available in case of fire
						Internal fire breaks must be implemented around stacking areas

CONTRUCTION VEHICLE OPERATION

				RISK	,	
	POTENTIAL	HEALTH		IALY		
ACTIVITY	HAZARDS IDENTIFIED	AND SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Construction vehicle selection	Vehicle without capacity to operate safety under site conditions	Accidents Injuries Fatalities	5	4	Н	Construction vehicle selected for site operations must be able to be operated without any safety risks. An assessment must be conducted on site terrain and intended use; information obtained must be used to ensure plant selected shall operate safely
Parking of construction vehicles	Vehicle parking in non-designated areas Vehicles running off during parking Oil leaks on parked plant	Vehicles crashing Property damage Accidents with may result in injuries	3	3	М	Sufficient space to be provided for parking of construction vehicle and plant at site camp. All vehicles and plant to park in designated areas. Construction vehicles and plant to have wheel stoppers. Drip trays to be placed under parked plant.
Construction vehicle operations near power lies	Clearance not determined Plant hitting powerlines	Property damage Electrocution ; injuries & fatalities Fire	5	4	Н	Clearance of all powerlines from the ground to be determined. Warning / controls such as goal posts and signage to be installed on both sides of the powerline for only plant that can pass through safely to be allowed. Tipping under power lines to be prohibited.

				RISK		
ACTIVITY	POTENTIAL HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P	C	R R	CONTROL MEASURES
General operation of construction vehicle and mobile plant on site	Construction vehicle and plant driven by incompetent / unauthorised operators Faulty plant or vehicle Construction vehicles trucking or running over personnel Plat/ vehicle crushing other vehicles Construction vehicles or plant colliding with each other or public vehicles Vehicles overturning Vehicle running out of control Noise Dust	Accidents Property damage Injuries Fatalities Health effects; nuisance, allergic reactions, threshold shift, permanent hearing loss	5	4	I	Construction vehicle to be operated by competent operators. Only Authorised personnel to operate construction vehicle or plant Maximum speed to be as per traffic management plan Daily safety checks should be conducted on the plant, non-conformances to be immediately rectified Road and safety rules and signs to be obeyed during vehicle operations Parking in blind sports of plant / articulated dump trucks to be avoided Drugs testing to be conducted on operators and all personnel on site Construction vehicle operators to wear full PPE, which is overalls, reflective vests & safety boots Plant to be maintained to ensure emitting noise is within safety standards Water spraying to be continuously implemented to control dust created by construction vehicles and plant

ROADWORKS

		HEALTH	RISK ANALYSIS			
ACTIVITY	POTENTIAL HAZARDS IDENTIFIED	AND P C R SAFETY AND RISKS			CONTROL MEASURES	
Working near traffic	Road accidents	Traffic hitting site employees Traffic colliding with site vehicle Traffic hitting the public Traffic accidents due to distractions from site activities Fatalities	5	4	H	Traffic Management plan for the site to be developed for the works. Speed on the road under construction to be reduced to 40 km/h and warning signs to be posted as per Department of Transport Traffic Signs Manual, 2010 Concise signage skim to be in place Safe pedestrian routes to be developed and maintained Controls which include liaisons, signs, flag person, stop and go systems barricaded to be implemented as per risks on site Employees to be trained. All employees to wear reflective vests. Contractor to ensure plans are in place for maintaining safe traffic flow for day and night. This must be addressed in the plan.
Traffic manageme nt	Construction vehicle and plants collisions Construction plant crushing light duty vehicles Construction vehicle or plant crushing employees Public vehicles accidents	Property damage Injuries Fatalities	5	4	Н	Traffic management plan to be developed as per risks of the workstation. Traffic safety warning signs and speed control signs to be adequately displayed prior work stations on both entrances of the construction site. Signs showing construction activities ahead, speed reduction to 60 km/h, plant presence and speed reduction to up to 40 km/h. These signs must be 50 – 100 meters apart and from the work station. Signs must be installed in poles. Road under construction to maintain speed limit of 40 km/h until handover/ completion of the works. At work stations, traffic must be warned prior through installation of a flagman that must be 150 meters from workstation on both sides of the road. Working areas require speed reduction to 20km/ h 100 meters to ensure safety of workers. Working areas / work stations to be demarcated with delineators that are at least 5 meters apart.

	RISK HEALTH ANALYSIS					
ACTIVITY	POTENTIAL HAZARDS IDENTIFIED	AND SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Half width roads / closed roads operations	Inadequate warning, instructive and informative signage on controlling and managing traffic for the activity Lack of provision of adequate traffic management	Traffic colliding with work stations Traffic hitting workers Traffic colliding with construction vehicles Road accidents, head on collisions of road users Property damage, injuries and fatalities	5	4	H	Contractor to ensure adequate traffic management for the activity. Where road is closed, safe detours to be provided and maintained in good condition and to have adequate signage. Where lane is closed / operations result in half width, contractor to provide stop and go. Stop and go to have signage indicating activity ahead, directional arrows to be provided for intended traffic flow. Personnel operating stop and go sign and controlling of barriers for stop and go to be different.
Employees movement around constructio n sites	Employees struck by passing traffic and vehicles accessing or exiting to/from works site	Injuries fatalities	5	4	H	All personnel on the road to wear safety boots and reflective vests/ jackets Employees to be always alert of construction vehicle and plant Construction vehicle and plant to be driven at speed stipulated for the site (40 km/ h or 20km / hour where there is activities) Construction vehicle to have functional audio and light warnings
Milling	Non-compliant vehicle Dust exposure (silica) Vehicle's accidents	Property damage Injuries Infections of the lungs	5	4	Н	Machine to be compliance as per manufactures instructions Plant to be operated by competent person Traffic management plan to be in place All personnel in the vicinity of the activity to wear dust masks Good housekeeping and waste management to be maintained as per EMPr

		HEALTH	Α		SK YSIS					
ACTIVITY	POTENTIAL HAZARDS IDENTIFIED	AND SAFETY AND RISKS	P	С	R	CONTROL MEASURES				
Hauling of cut material	Overloading material on trucks Speeding Poor visibility	Material falling along routes Accidents, injuries, property damage and fatalities	5	4	H	Traffic management to be provided and implemented, Construction traffic flow to be controlled as per site conditions Trucks to be not overloaded with material, controls to be in place. Housekeeping to be maintained, material fallen along the route to be continuously removed.				
Stockpiling of material	Unauthorised entrance to stockpile area Poor storage of material, high stacks	Stacks collapse Accidents, injuries and fatalities	3	3	M	Material stockpile area to be fenced. Stacks to be kept at less than 2 meters high. Housekeeping to be kept in the area.				
Layer works	Exposure to cement dust Exposure to hot asphalt Exposure to hazardous chemical substance through inhalation or contact Fire explosions	Burns Eye, throat and nose irritation Respirator y infections Fire Property damage	5	4	Н	Employees working with cement to wear dust masks Asphalt to be contained in a manner that will prevent employees from being exposed to heat Employees to avoid close contact such as eye exposure, skin contact and inhalation with asphalt Sources of ignition to be kept away from asphalt Material safety data sheet for asphalt to be provided and employees to be trained on it Asphalt that requires disposal to be only disposed in an approved landfill site				
Use of Nuclear Density Soil Gauge	Radiation exposure	Skin burns Cancer / cardiovasc ular diseases	5	4	Н	Competent laboratory to conduct density tests. Before operating a nuclear gauge, a person must pass a Nuclear Safety course and be issued a thermoluminescent dosimeter (TLD) badge. The badge measures exposure to radiation and is to be worn whenever operating a nuclear gauge. Exposure to radiation must be limited through time, distance, and shielding. Safe storage and use of equipment to be in place Safe working procedures to be developed and implemented				

USING OF HAND TOOLS AND EQUIPMENT

	POTENTIAL	HEALTH	RISK ANALYSIS			
ACTIVITY	HAZARDS IDENTIFIED	AND SAFETY AND RISKS	P	С	R	CONTROL MEASURES
Operating hand tools	Tools in poor condition Substandard work and possible damage to plant and equipment.	Hand, foot, back injury. Substandard work and possible damage to plant and equipment.	4	3	Н	Set standards of tools to be bought by buying department: only SABS approved tools to be used on site.
Operating pneumatic powered tools	Incompetent operator Unsafe tools Improperly functioning tool Oil leaks Noise Vibration Dust Flying objects Ergonomics	Whipping hose Over speeding tool Under operating tool Injuries Noise induced hearing loss Blanching of fingers, loss of sensation and loss of grip strength Eye injuries Back injuries	5	4	Н	A trained and competent operator must operate pneumatic tools as per manufacturer's instructions. Tools must be inspected for safety before use, ensure air hose are properly fasted and correct pressure is used The tool must be properly serviced before use. Employees to wear full PPE during machine operation: safety boots, vibration inducing gloves, ear muff, dust masks and goggles. Training on PPE use by all in the vicinity of the hazard. Ensure proper spacing of employees Operators to properly grip the tools when in used. Employees to ensure their backs are straight during works. Employees to take 15 minutes breaks every hour during operation.
Fuel powered tools / electrically powered tools	Incompetent operator Improper refuelling procedures Noise Vibration Dust Oil Leaks	Hands, arms vibration disorder Noise induced hearing loss Nose throat and lung irritation, allergic reactions Body and feet injuries Environment al contaminatio n	5	4	Н	Employees to work in pair to take breaks and relieve another from body vibration. Employees operating hand-held compactor to wear full PPE – vibration reducing gloves, ear muff, dust masks and safety boots. Machines to be well maintained and kept in safe working condition. No fuel / oil leaks on the machine. When the equipment has leaks, it should not be used and be fixed to prevent leaking Leaks must be cleaned from the environment, waste to be temporary placed in hazardous chemical subcases bin that must be emptied of in an approved landfill site.

	POTENTIAL	HEALTH		RISK		
ACTIVITY	HAZARDS IDENTIFIED	AND SAFETY AND RISKS	P	C	R	CONTROL MEASURES
Working in the vicinity of tools operations	Danger of exposure to hazards Noise	Noise induced hearing loss	3	3	M	Employees to work too close to others Employees to take reasonable care of others at work. PPE to be used by employees exposed to hazards (ear protection and dust masks)
	Dust Flying objects	Check infections and allergic Reactions				

EXCAVATIONS

	POTENTIAL	S HEALTH AND			SK LYSIS	
ACTIVITY	HAZARDS IDENTIFIED				R	- CONTROL MEASURES
Opening of excavation s by plant	Encountering underground services Cave-ins Plant / employees falling into excavations Employees working in close proximity to plant Communities and animals falling into excavations Dust	Damaging underground services/ incidents due to encounter Plant striking employees Property damage Injuries and fatalities	5	4	Н	Underground services to be detected before excavations are conducted. Soil composition must be identified and control systems to be designed as per condition. Excavation's dipper than 1.5 meters / with unstable material to be battered at an angle of repose. Or be provided with bracing or shoring. Construction vehicle and plant to keep a safe distance of 1 meter from the edges or as per Engineer's recommendations to prevent causing pressure on walls which may lead to collapse. Employees to keep a safe distance from plant, and be extra vigilant during opening of excavations. All personnel working in the area to wear reflector vests and masks where dust is produced. All excavations to be barricaded with a strong physical barrier to restrain person / animals from fall in. All personnel to wear PPE i.e., reflective vests and dust masks.

	POTENTIAL	LIFALTII AND			SK	
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P		-YSIS R	CONTROL MEASURES
Opening of excavation s by hand tools	Striking underground services Unsafe hand tools Employees striking another by tools Hands injuries from using tools Accessing inside excavations Dust	Injuries Fatalities Nose, throats and lung irritations, allergic reactions and infections	5	4	Н	Underground services to be detected before excavations and be addressed as per Engineer's specification. Tools used for excavating to be SABS Approved and be inspected for safety before use, employees to be trained on inspecting tools . Employees to keep a safe distance from each other when working in the same excavation, a minimum of 10 meters apart. Employees to wear PPE i.e., steel toed safety boots, leather gloves, dust masks and reflective vests
Opening excavation s using jackhamm er	Noise Whole body vibrations Being struck by equipment Ergonomics	Noise induced hearing loss Hand arm vibration syndrome Crush injuries and disabilities Strains, sprains & back injuries	5	4	Н	Excavations more than 1.5 meters deep to be accessed using safe ladder Trained and competent personnel to operate jackhammer equipment Manufacture's operating instructions to be strictly adhered to. Equipment to be inspected before use and manufacture's maintenance program to be adhered to. Employees in the activity or and close proximity to wear PPE i.e., dust masks, reflective vests, steel toed safety boots and ear plucks / ear muffs. Operators to wear anti vibration gloves. Steering wheels to be adjusted to meet height of operators, back to be maintained straight during operation, equipment to be kept close proximity to the body. Employees to be allowed regular breaks / take
Maintainin g open excavation s	Employees, personnel or communities falling into excavations Waterlogged excavations Cave-ins Accessing inside excavations	Injuries Fatalities Property damage	5	4	Н	turns during operation to void exhaustion. Signage showing open excavations to be posted in the vicinity for warn personnel Open, unattended excavations to be barricaded with a strong physical that is clearly visible and more than 1.1 meters hight. Excavations to be inspected daily, remedial actions to be taken for excavations with risks. Water logged excavations to be pumped out mechanically without details. Excavations with unstable or collapsing to be addressed as per Engineer's recommendations with bracing or shoring or battering All excavations dipper than 1.5 meters to be accessed using a compliant ladder.

BACKFILLING

ACTIVITY	POTENTIAL	HEALTH AND	Al		SK YSIS	CONTROL MEACURES
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Backfilling of excavation s by plant	Cave-ins Burying personnel or equipment Plant / employees falling into excavations Employees working in close proximity to plant Dust	Plant and personnel falling into excavations Property damage Injuries and fatalities Nose, throats and lung irritations, allergic reactions and infections	3	4	Z	Inspections to be conducted on excavations before burring. Personnel to keep away from excavations being backfilled. Plant to keep a safe distance from the edges as per Engineer's recommendations to prevent causing pressure on walls which may lead to collapse. All personnel working in the area to wear reflector vests. All personnel to wear PPE i.e., reflective vests and dust masks. Task to be conducted under supervision.
Backfilling of excavation s manually	Unsafe hand tools Employees striking another by tools Burying of personnel or equipment Hands injuries from using tools Dust	Injuries Fatalities Nose, throats and lung irritations, allergic reactions and infections	3	4	M	Excavations to be inspected for safety before working and risk that may pose to be controlled. Personnel not involved in the task to keep away from excavations being backfilled. Tools used for backfilling to be SABS Approved and be inspected for safety before use, employees to be trained on inspecting tools. Employees to keep a safe distance from each other when working on the same excavation, a minimum of 10 meters apart. Employees to wear PPE i.e. steel toed safety boots, leather gloves, dust masks and reflective vests. Task to be conducted under supervision.
Compactin g by plant	Noise Vibration Plant striking employees Dust	Noise induced hearing loss Injuries and fatalities Nose, throats and lung irritations, allergic reactions and infections Vibration affecting nearby structures	5	4	M	Employees to keep away from plant and be extra vigilant. Employees to wear PPE i.e., dust masks, reflective vests and ear plucks / ear muffs. Assessment to be done to ensure protection safety of nearby structures from vibration.

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND	Al		SK YSIS	CONTROL MEASURES
ACTIVITI	IDENTIFIED	SAFETY AND RISKS	Р	С	R	CONTROL MEASURES
Compactin g by hand held equipment	Noise Whole body vibrations Being struck by equipment Ergonomics	Noise induced hearing loss Hand arm vibration syndrome Crush injuries and disabilities Strains, sprains & back injuries	5	4	H	Trained and competent personnel to operate compacting equipment Manufacture's operating instructions to be strictly adhered to. Equipment to be inspected before use and manufacture's maintenance program to be adhered to. Employees in the activity or and close proximity to wear PPE i.e., dust masks, reflective vests, steel toed safety boots and ear plucks / ear muffs Operators to wear anti vibration gloves. Steering wheels to be adjusted to meet height of operators, back to be maintained straight during operation, equipment to be kept close proximity to the body. Employees to be allowed regular breaks / take turns during operation to void exhaustion.

MANUAL HA	NDLING OF MATERIAL	T		1014		
ACTIVITY	POTENTIAL HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	AN	IS	'S	CONTROL MEASURES
		Р	С	R		
Lifting and moving loads by hand	Handling loads that may be difficult to carry in terms of weight and shape Carrying loads for long distances Awkward posture during lifting and handling Poor grasping Pinch point Poor communication during handling Poor housekeeping	Soft-tissue injuries to wrists, arms, shoulders, neck or legs. Strains, sprains Chronic pain	5	4	I	Manual handling to be avoided as reasonably practicable by using mechanical means i.e., use of pallet truck, forklift truck, powered hoists. Assess risk for every load to be handled. Prevent the risk of injury from manual handling operations that cannot be avoided, i.e. • Reduce carrying distances, material to be delivered as close to the working area as possible • Assessing the weight to be carried to carried and ensure sufficient man power. • Ensure proper grasping. • Ensure good handling and lifting techniques i.e., keep the load as close to the body, waist as far as possible, avoid twisting the back or leaning sideways, keeping the head up, moving smoothly • Plan for rest midway where the distance is long • Clear communication & good coordination to be in place Good housekeeping to be implemented in routes used for handling. Training on manual handling procedures to be conducted on employees
Putting down of loads	Unexpected dropping of loads Pinch point Placing of the loads at higher positions Poor housekeeping	Hands and fingers, legs and feet injuries	5	4	I	Throwing loads to the ground to be avoided, loads to put down smoothly. Placing loads at position above shoulder level to be avoided. Good coordination when resting loads, safe placing of the load simultaneously. Ensure good housekeeping during place / stacking of material. Employees to be trained pf the procedures.

WORKING AT HEIGHTS

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND	Α	RISK ANALYS IS		CONTROL MEASURES
	IDENTIFIED	SAFETY AND RISKS	Р	С	R	
Accessing heights	Unsafe means of accessing heights Open edges Collapse of height accessing structure	Falling – Injuries to employees Fatalities Property damage	5	4	Н	Fall protection plan to be developed and implemented for accessing and working elevated / below positions which starts from 1.5 meters where the fall risk is present. Scaffolding that complies with SANS 10085 standards should be used as a working platform for heights higher than 1.5 meters Compliant ladders with General Safety Regulations to be used to accessing heights. All open edges with more than 1.5 meters high / below to be barricaded with a strong physical barrier of 1 meters high material that can restrain a person from falling.
Working at heights	Falling from heights Unsafe height accessing equipment	Injuries Fatalities Property damage	5	4	Н	All elevated working positions at must have safe working platforms that have guard rails at 1.5 meters high and be strong to prevent a person from falling. Where the elevated position requires provision of working platform; scaffolding must be used. Scaffolding platforms must be safe, stable and without openings. Fall arrest equipment which is a combination of safety harness attached an anchor point or lifeline must be used where it's not practical to install edge protection, Anchor points must be approved by the engineer for stability. Double lanyard safety harnesses must be used and they must be of adequate height to prevent employee from hitting the surface. Positions below elevated positions maintained safe and protected from falling objects.

LADDERS

				RIS	K	
4.000	POTENTIAL	HEALTH			YSIS	000,000
ACTIVITY	HAZARDS IDENTIFIED	AND SAFETY	Р	С	R	CONTROL MEASURES
		AND RISKS				
Using of ladders	Poor planning Use of ladder with defects Failure to secure or foot ladder correctly Using ladder where to access heights instead of safety height accessing equipment Unsafe means of handling tools while using ladder High winds Poor housekeeping	Slipping and falling Injuries Fatalities Property damage	5	4	Н	Assessment to be done to ensure suitability of a ladder for operation of a task. Ladders to be of correct length and type for the indented job. Ladder to be used according to manufactures instruction. Ladders to be inspected before use and all ladders to have numbers. Work supervisor to ensure the following when ladders are used: • properly secured at the top • properly footed • do not exceed 75-degree angle when erected Working equipment to be carried on a suitable belt when working on a ladder. Ladders to be not used when there's strong winds.
						working on a ladder.
						Ladders to be clean and free from grease and oil.

LIFTING AN	<u>D TACKLING</u>					
	POTENTIAL	HEALTH AND		RIS		
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P	C	R	CONTROL MEASURES
Works'	Wrong selection	Crushes	5	4	Н	Lifting not to take place under power lines.
preparation	of equipment Structural failure Crain failure	Injuries Fatalities				Crane and its rigging and lifting accessories to be to be selected in accordance with the type, shape and size of steel to be lifted.
	Incompetent operator	Property damage				Crain to be positioned in a stable foundation approved by a competent person; where doubt exists, professional engineer to be consulted.
	Site conditions					Crane to operate by competent personnel to carry out the work safely who has a valid certificate of medical fitness.
	Weather conditions					Crane must have in its cab / operators station the following: Operator's manual
	Ground conditions					Maintenance manual
						Load chart
						 Current annual inspection and certification as follows:
						 Annual load test of 110% of the rated load mass
						 3 months' certificates of ropes, chains and hooks
						The crane must be inspected on daily basis by a competent person wo's operating it and records must be kept o the plant. Crane must be fitted with wind speed device that provides operator with audible warning when wind speeds exceed the designer's specification.
Hooking	Improper handling	Hands and	5	4	Н	Task to be conducted by competent slinger / signaller.
the load for lifting		finger crushes				Path of the load must be planned to ensure there's no obstructions or workers under swinging loads
						To be conducted by a qualified rigger Appropriate PPE to be used i.e., leather gloves, safety boots and helmet
						Load to be fully secured before lifting
						Loads to be maintained within the capacity of the crane
						Crane operations to sopped under the following adverse weather conditions: • Poor visibility
						• Rain

	POTENTIAL	HEALTH AND	RISK ANALYSIS		-	
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS		С	R	CONTROL MEASURES
Load lifting and swinging	Falling Caught up of suspended load Crain failure Toppling	Crushes Fatalities Property damage	5	4	Н	Competent slinger and signal man to control the operation Signs to be installed to warn works of the operation. Area to be controlled and secured There must be no standing under suspended load Ensure crane operator, rigger and signalman have clear communication
Swinging the load for proper positioning	Hitting by object Restricted Miscommunicatio n	Property damage Injuries Fatalities	5	4	Н	Ensure installation of tagline Ensure sufficient manpower to handle tag line Audio warning (crane siren) to be used for area clearance and place signboard Employees working on the activity to wear reflector vests, helmets and leather gloves
Load positioning and removal of gears	Falling from height Miscommunicatio n	Crashes Hand and fingers injuries Body injuries Fatalities	5	4	Н	Rigger and Signalmen to properly communicate Landing position to be clear of obstructions and ensure stable and safe positioning of the load Use proper PPE i.e., leather gloves and helmets

STEEL REINFORCEMENT FIXING

	POTENTIAL	HEALTH AND	_	RISI	-	
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS		ANALYSIS P C R		CONTROL MEASURES
Task preparations	Inadequate plan ning and training improvisation	Task based injuries	5	4	Н	Competent and sufficiently skilled personnel to be involved in the task.
	Poor access	Slips, trips and falls				Planning for required equipment and sourcing out to be in place.
						Competent supervisor to be provided for the task.
						Clear access to working areas to be prepared; good housekeeping to be implemented and maintained.
						Safe working procedure to be in place.
Lifting steel reinforc ement to the workface	Poor choice of lifting methods Unsafe equipment used Material falling and striking	Serious injury to person/s from loads being lowered onto the deck or uncontrolled fall of load	5	4	Н	Mechanical lifting device i.e., crane to be sued. Complying equipment to lift the load. All lifting equipment to comply with tackling and lifting requirements i.e., certified rigger to monitor the lifting activities, loads to meet lifting equipment capacity, chains and hooks used for lifting to be compliant.
	personnel					Spotter to be provided to monitor lifting operations and communication to be clear.
						Steel to be sorted out during to avoid double handling.
						All objects that may be struck to be cleared.
						Personnel to be prohibited from moving under lifted loads

	POTENTIAL HEALTH AND ANALYS					
ACTIVITY	HAZARDS IDENTIFIED	SAFETY AND RISKS		P C R		CONTROL MEASURES
Placing steel reinforcemen t	Flaky steel Sharp edges Struck by piece of steel Manual handling Constant bending over	Cuts Steel splinters Strains and sprains	5	4	Н	Strong leather gloves to be used when handling steel. Employees to wear full body covering overalls. Employees to carry bars that can manage, team lifting to be implemented where necessary. Good coordination when carrying and placing steel Job rotation to allow break from ergonomics
Cutting of steel reinforcemen t	Operating electric/ gas angle grinder Noise Sparks generation	Electric shocks & electrocution Burns Noise induced hearing loss Eye's damage	5	4	Н	Trained and competent personnel to operate grinder to cut steel. Inspection to be done on the electric equipment and electrical cords before use. Inspection to be done on gas hoses and all connection points before activity. Personnel cutting steel to wear PPE; welders' aprons, welders' gloves, face shields & ear protection (ear muff). Fire extinguisher to be less than 50 meters from the activity.
Fixing of steel reinforcemen t	Repetitious bending, twisting and cutting Insufficient rest periods between jobs Working too fast	Sprains Strains Back pains Muscle pain Cuts	5	4	Н	Job rotations to be implemented to allow rest periods. Suitable pliers that minimise adding pressure to be selected for the job. Work to be done at a safe phase. Leather gloves to be worn.

TEMPORARY WORKS

	POTENTIAL			RIS		
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P	C	/SIS R	CONTROL MEASURES
Work's preparation	Poor design Incompetent	Structural failure	5	4	Н	Project Engineer's specification or guidelines must be used as a guideline for designing temporary works.
	person designing temporary works Accidents Injuries,					Temporary works must be designed and signed off by a competent temporary works designer who is an Engineer registered with ECSA.
		Property damage				Temporary works to be designed to withstand inclement weather without posing safety risks to personnel as per project engineer's specification
						Method statement for temporary works installation must be signed off by a temporary works designer.
Temporary works installation	Incompetent personnel supervising and	Structural collapse	5	4	Н	Fall protection plan for formworks to be developed. Temporary works to be installed under supervision of a competent temporary works supervisor.
	operating in the task Lack of full adhering to the	Crushed, injuries and fatalities Property				Temporary works designer to ensure that foundations are suitable for temporary works installation.
	design and method statement	damage				All equipment used on temporary works must be as per temporary works designer drawings.
						All personnel involved in temporary works installation must to be trained and fully instructed on their duties.
						Temporary works to be inspected and approved by the by a temporary works designer in writing before concrete placement.
						Temporary works must be inspected daily by temporary works supervisor daily during curing period
						Temporary works designer to issue authorisation on writing before temporary works is removed.
Removal of temporary works	Manual handling Temporary works striking	Injuries Crushes	5	4	Н	Safe working procedure signed by temporary works designer must be provided for removing temporary works.
	employees Fatalities				Temporary works to be removed using suitable equipment.	
						Trained personnel to be involved in the operation.

CONCRETE PLACEMENT

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND SAFETY AND	A	RISK NALY IS	/S	CONTROL MEASURES
	IDENTIFIED	RISKS	Р	С	R	
Works' preparation s	Poor planning Space availability	Vehicle accidents Ground	5	4	Н	Works to be planned accordingly; temporary works and reinforcement steel to be completed. Method statement for the works to be activity to be provided.
	Ground conditions	collapse				Traffic management plan for the activity to be developed,
		Accidents				considering truck routes and parking.
		Injuries				Safety files for the concrete supplier to be approved.
						Ground conditions where the pump truck shall be positioned to be stable, be able to withstand vibrations without safety risk
						and be approved by a competent person. Personnel involved in the operation to wear PPE; reflective
						vests, gum boots, long rubber gloves and waterproof aprons, hard hats and goggles.
Concrete pouring	Obstructions Cement splashes	Boom strutting personnel, equipment or	5	4	I	Work area to be free of obstruction. Only authorised, trained and instructed personnel to be
	resulting in eye, skin contact and	structures				allowed in the area.
	environment contamination	Injuries, property damage				Inspection to be done on the done on the structure before concrete pouring.
	Concrete skin contacts	Burns in the				Water to be readily available to clean concrete splashes.
	Engulfment	skin, dermatitis Eye irritation				Spotter who shall clearly communicate with the pump operator to be provided.
	Noise	Nose, throat and lung				Personnel involved in the operation to wear PPE; reflective vests, gum boots, long rubber gloves and waterproof aprons,
	Cement dust	irritation, silicosis, increased risks of Tuberculosis				hard hats, goggles, ear plucks and dust masks.
		Environment contamination				

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND SAFETY AND		RISK ANALYS IS		CONTROL MEASURES
	IDENTIFIED	RISKS	Р	С	R	
Vibrating concrete	Unsafe generators and vibrators Untrained personnel operating equipment Cement splashes resulting in eye, skin contact and environment contamination	Injuries Injuries Burns in the skin, dermatitis Eye irritation Nose, throat and lung irritation, silicosis, increased risks of Tuberculosis Environment	3	4	Н	Generator and vibrator to be suitable and inspected for safety before use. Trained and competent personnel to vibrate concrete. Personnel involved in the operation to wear PPE; reflective vests, gum boots, long rubber gloves and waterproof aprons, hard hats, goggles, vibration reducing gloves, ear muffs and masks. Task to be done under supervision.
Mixing concrete by hand	Exposure to cement through inhalation of cement dust Eye contact with cement Powder Hands contact with dry or wet cement Mixing cement directly on the ground Incompetent operator of the concrete mixer	contamination Nose, throat and lung irritation, silicosis, increased risks of Tuberculosis Burns in the skin, dermatitis Eye irritation Environment contamination Injuries	5	4	Н	Competent operator to operate concrete mixer. Employees to avoid eye contact with dry powder cement. Employees to wear rubber gloves when working with cement. Employees to wear dust masks when working with powdered cement. Cement to be only mixed on a concrete of over an impermeable material to prevent environmental damage.

FLAMMABLE SUBSTANCES USE AND STORAGE

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND SAFETY AND	A	RISK ANALYS IS		CONTROL MEASURES
	IDENTIFIED	RISKS	Р	С	R	
Handling and	Fire Explosion	Injury to employee/	5	4	Н	Flammable should only be handled by trained personnel.
storage in small	storage in Skin and eye personnel				Material safety data sheet (MSDS) for chemicals to be provided.	
of diesel, petrol and					PPE required when handling the flammable should be warn as per MSDS specifications.	
					Flammable liquids to be stored as per supplier's recommendations in a ventilated room or cage.	
						Fuel to be stored in suitable containers as per MSDS, in a secured and well-ventilated area.
						Sources of ignition should be not allowed in the storage area.
						Spills to be cleaned up immediately and prevented from environmental contamination.
						A spill kit shall be provided on site.
						No smoking / no naked flame sign should be displayed next to the storage area.
						Fire extinguisher should be placed or easily accessible from the area.
Refuelling plant	Fire/explosion, static-ignition from	Injuries Fatalities	5	4	Н	Store fuel only in approved containers / pumps
piant	refuelling operations	Property damage and loss				Engine must be switched off when topping up fuel and lubrication oil.
		1055				Locate fire extinguisher in vehicles
						No smoking permitted during refuelling activities. Carry out the work in well ventilated work area follow the MSDS instructions.
						Re-fuelling operations and Plant (machines) to be located in a designated fuelling area e.g. bunding/spill kit area, away from pedestrian movement and where practical, operations should take place in an open and well ventilated area away from buildings structures and shelters.

ACTIVITY POTENTIAL HEALTH AND SAFETY AND IS CONTROL MEASURES	
Refuelling small plant items i.e. Generators and compactor s	e for the

GENERAL ACTIVITIES

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND SAFETY AND	RISK ANALYS IS		ANALYS		ANALYS IS			CONTROL MEASURES
	IDENTIFIED	RISKS	Р	С	R					
Using of personal protective equipment	Hazards related to employees not wearing the required protective apparel.	Injuries Death	5	4	Н	Ensure that employees have been issued with the appropriate protective equipment required and replace such apparel if damaged. Induct employees with regard to the potential dangers associated with not wearing the required protective equipment Train supervisors to ensure that the required protective equipment is indeed being worn by employees when the task is executed. Institute disciplinary action against employees who fail to wear the protective.				
General sanitation and hygiene; provision of welfare facilities	Hazards resulting from diseases related to poor sanitation and hygiene, and other diseases.	Diseases Death	5	4	Н	Employee's facilities to be adequately provided at the workstations such as hygienically maintained ablutions, toilet paper, safe drinking water, sheltered eating areas and first aid kits. Induct employees with regard to sanitation and hygiene issues, and related diseases. Induct employees with regard to the necessity to seek immediate medical treatment with respect to any injuries sustained on site, however minor. Keep contact details for emergency services prominently displayed in the site office.				

ACTIVITY	POTENTIAL HAZARDS	HEALTH AND SAFETY AND	RISK ANALYS IS		ANALYS IS		ANALYS IS		_	CONTROL MEASURES
	IDENTIFIED	RISKS	Р	С	R					
Emergency evacuation of injured personnel in the case of life- threatening injuries	Hazards related to delays in providing appropriate medical attention.	Injuries Permanent disability Death.	5	4	Н	Plan then implement appropriate emergency evacuation procedures to be followed in such instances when there may not be time to await the arrival of the emergency services. Keep snakes antivenom on site Induct employees with regard to the procedures to be followed in such instances. Keep contact details for emergency services prominently displayed in the site office. Contact the staff at the relevant institution to forewarn them of the status quo of the casualty en route, so that they can prepare for their arrival and possibly even have paramedics intercept the casualty en route.				
Housekeep ing maintenan ce	Material in undesignated positions Equipment and tools lying all over Scraps and rubble in undesignated positions	Trips and falls Injuries Low working moral	5	4	Н	Good housekeeping to be implemented and maintained on site. All material to be placed in designated positions. Laydown, stacking and storage areas to be demarcated. Rubble to be continuously removed from workstations to designated collection areas which are demarcated. Time to be allowed for housekeeping i.e., before each break and at the end of the shift. Waste to not be allowed to accumulate on site and be continuously removed for disposal at approved site.				

OCCUPATIONAL DISEASES: COVID 19

	POTENTIAL			RIS		
ACTIVITY	HAZARDS	HEALTH AND SAFETY AND	AI P	NAL)	/SIS R	CONTROL MEASURES
	IDENTIFIED	RISKS	_			
Works preparation s	Lack of information on the COVID-19 virus management Lack of competent personnel to management virus on site Lack of recourses for implementing programs to prevent the spread of COVID-19 virus	Spread of COVID-19 at the workplace Sicknesses Low work moral Loss in production due to loss of skilled and general personnel Financial impacts on replacing staff Shut down of the operations	5	4	H	Information, developments, government regulations and guidelines on COVID-19 to be uptodate on site. Contracts Manager, Construction Manager and Safety Officer to keep updated from reliable sources i.e., government website or government gazette on the virus. Site to comply with COVID-19 regulations and guidelines issued under the under-the Disaster Management Act in conjunction with the Occupational Health and Safety Act and Regulations. COVID-19 management plan and programs to be developed for the site. Site to designate personnel for COVID-19 management. COVID-19 is a novel disease, the site to ensure procurement of information from reliable sources and consult the Safety Agent when in doubt. Site to plan activities to be conducted and number of employees to be procured in compliance with COVID-19 guidelines of social distancing. Management to prepare to provide resources requirement for managing, preventing and controlling COVID-19 virus
Transporta	Transportation or	Infections	5	4	Н	spread on site Site to ensure employees transportation used on site
tion and constructio n vehicles operations	construction vehicle contaminated with the virus Lack of complying with social distancing	Sicknesses		.		allows social distancing. Transportation surfaces to be sanitized before employees embark on it. All personnel to sanitize their hands before embarking on transportation. Where practical, site construction vehicles to be not shared. In case of sharing site vehicles/ plant. Operator to sanitize the construction vehicle/ plant before and after use

	POTENTIAL		RISK			
ACTIVITY	HAZARDS	HEALTH AND SAFETY AND	AI P	NAL)	/SIS R	CONTROL MEASURES
	IDENTIFIED	RISKS	P	C	K	
Commenci ng of works on site	Procuring personnel who are infected or carriers of the COVID-19 virus Lack of measures in place for preventing the spread of COVID- 19 virus on site Lack of information and training to personnel om site	Spread of infection amongst site personnel Challenges with managing personnel	5	4	I	Personnel to be screened for COVID-19 before being allowed to work on site, screening to be conducted by competent personnel following Department of Health screening guidelines. Employees to be trained on COVID-19 virus, risk factors, signs and symptoms and preventative measures. Only employees who have been deemed safe to work on site after the screening test to work under stringent hygiene management. Employees with signs and symptoms for the virus to be secluded from work and be referred to a Doctor/ Health Practitioner. Personnel who had symptoms or who have tested positive for COVID-19 to only return to work once they have received clearance from a Docter. Site to develop trust with employees and encourage them to communicate and report signs and symptoms of the virus if / when they start experiencing them.
						Employees to be trained on renumeration and compensation measures in place with regards to COVID-19 infection.
Implementi ng COVID- 19 manageme nt programs on site	Lack of complying with COVID-19 preventative requirements Allowing employees to site without hygiene requirements in place Poor hygiene on employees	Spread of the virus Infections on site Employees taking time off work Lack of production Site shutting down	5	4	Н	All personnel entering the site to wear masks. All personnel to have their hands disinfected through using of alcohol-based hand sanitizer or washing their hands when entering the work place. Employees to be trained on hygiene requirements for COVID-19. Employees to be trained on personal hygiene. Surfaces to be continuously disinfected on site. Employees to be trained hand washing or hand sanitizing continuously on site Work place to be kept clean and hygienic, surfaces (tables, computer keyboards), ablution facilities to be wiped up with disinfectant regularly
						Site to display notices and awareness information on COVID-19 prevention measures

	POTENTIAL			RIS		
ACTIVITY	HAZARDS IDENTIFIED	HEALTH AND SAFETY AND RISKS	P	C	/SIS R	CONTROL MEASURES
Conducting activities at the work place	Tasks requiring close contact with a fellow worker	Risk of contamination with the virus from one	5	4	Н	Social distancing to be implemented as far as reasonably practicable at the work place i.e.: one and half meter distancing between personnel during works.
piace	PPE maintenance	person to the other				Employees who require to assist each other and get closer than prescribed distancing to wear face shields.
	Poor storage of PPE					Employees to be trained on taking care and disinfecting of their PPE, sharing of PPE to be prohibited.
						PPE to be marked to avoid mixing, space to be designated for storing PPE safely
						Space to be provided for storing personal belongings separately.
Visitors / suppliers entering site	Infected personnel entering the site	Potential of spreading the virus	5	4	Н	Visitors and suppliers must be screened at the site entrance i.e., temperature testing before being allowed on site.
site						Visors to arrive on site wearing face masks.
						Visitors must bring their own PPE for the site i.e., reflecting vests and
						Visitors and suppliers must be trained on site COVID-19 requirements and rules.
						Face to face meetings to be avoided where practical.
						Preparation for space that shall allow for social distancing and maintenance of hygiene to be in place for compulsory meetings.
Waste manageme	Improper handling of COVID-19	Risk of contamination	5	4	Н	COVID-19 waste must be handled as biohazard waste and be treated separately from general waste.
nt	waste Unsafe disposal of COVID-19 waste	and spread of the virus				Separate bins with tight closing, foot operated lids must be provided discarding off COVID-19 waste.
	COVID TO Madio					COVID-19 waste bins to be clearly labelled.
						COVID-19 waste bins to be provided with plastics that shall be tightly sealed before disposal.
						Bins to be placed in strategic locations of the site i.e., work stations, welfare facilities and offices.
						Time of 72 hours to be delayed to allow the virus to die before waste is disposed of to the municipal waste.
						Employees to be trained on waste management.

Compiled by	Approved by
Construction Health and Safety Agent: Phungashe Health and Safety Consulting	Accepted: Department of Transport
Name: Ayanda Buthelezi	Name:
AFR	

E3.3 Guidelines for construction and maintenance projects under Covid-19 Lockdown

The Employer has prepared guidelines which set out the key principles and minimum requirements that define responsible, healthy and safe operations for road construction operations under COVID-19 Lockdown conditions, for the Contractor to comply with. In addition, the Contractor shall comply with any new COVID-19 Regulations issued by Government.

The guidelines have been included as Annexure A at the end of this Project Document.

E4. APPLICATION FOR CONSTRUCTION WORK PERMIT

Where the contract meets the requirements of Construction Regulation 3, the Employer must at least 30 days before commencement of the work and in accordance with the requirements of Construction Regulation 3, apply to the Provincial Director of the Department of Labour in writing for a construction work permit to perform construction work. The Employer's application must be done in a form similar to Annexure 1 of the Construction Regulations, and submitted with the required documentation, some of which the Contractor shall provide as stated in the Contract Data.

A copy of the construction work permit must be kept on site in the occupational health and safety file, available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representative trade unions and any other persons on the site. The Provincial Director will assign a site-specific number for each construction site, which must be conspicuously displayed at the main entrance to the site.

E5. NOTIFICATION OF CONSTRUCTION WORK

Where the contract meets the requirements of Construction Regulation 4, the Contractor shall, before commencement of the work and in accordance with the requirements of Construction Regulation 4, notify the Provincial Director of the Department of Labour of the intention to carry out the construction work, using the pro forma form included as Annexure 2 to this Health and Safety Specification.

A copy of the notification form must be kept on site, available for inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees, representative trade unions and any other persons on the site. A copy of the notification form shall also be kept on the health and safety file, and a further copy shall be forwarded to the Employer for his records.

E6. HEALTH AND SAFETY PLAN

Before commencement of any construction work, the Contractor shall prepare a project specific Health and Safety Plan complying with the requirements of Construction Regulation 7(1)(a) and this Health and Safety Specification.

The Health and Safety Plan must include a risk assessment performed and recorded in writing by a competent person as required in terms of Construction Regulation 9. The risk assessment shall identify and evaluate the risks and hazards that may be expected during the execution of the work under the contract, and it shall include a documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards identified.

The Health and Safety Plan shall be available on site for inspection by inspectors, the Employer, the Employer's Agent, subcontractors, employees, representative trade unions, and health and safety representatives and committee members, and must be monitored and reviewed periodically by the Contractor.

E7. APPOINTMENT OF EMPLOYEES AND SUBCONTRACTORS

E7.1 Appointments

The Contractor shall appoint in writing all employees.

The Contractor shall appoint in writing all subcontractors, and such appointments shall be in compliance with the requirements of Construction Regulation 7.

E7.2 Health and safety induction training

No person shall be allowed or permitted to enter the site of the works unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the site.

The Contractor shall ensure that all employees under his control, including subcontractors and their employees, undergo health and safety induction training by a competent person before commencement of construction work in compliance with Construction Regulations 7(5) and 9(3) and (4).

The Contractor shall ensure that all visitors to the construction site undergo health and safety induction and are provided with the necessary personal protective equipment in compliance with Construction Regulation 7(6).

E7.3 Medical certificate of fitness

The Contractor shall ensure that every employee, including subcontractors and their employees, has a valid medical certificate of fitness issued in compliance with Construction Regulation 7(1)(g) or 7(8) as applicable.

E8. APPOINTMENT OF SAFETY PERSONNEL

E8.1 Construction manager

Refer to Construction Regulation 8(1), (2), (3) and (4).

The Contractor shall appoint a full-time **Construction Manager** with the duty of managing all the construction work on the site, including the duty of ensuring occupational health and safety compliance.

The Contractor may also have to appoint one or more **assistant construction managers** to assist the Construction Manager where justified by the scope and complexity of the works.

E8.2 Construction health and safety officer

Refer to Construction Regulation 8(5) and (6).

Taking into consideration the size of the project and the dangers, hazards or risks that can be expected, the Contractor shall appoint in writing a full-time or part-time **construction health and safety officer** to assist in the control of all health and safety related aspects on the site. The construction health and safety officer shall be registered as required by the Chief Inspector of the Department of Labour and shall have the necessary competencies and resources to assist the Contractor.

E8.3 Construction supervisor

Refer to Construction Regulation 8(7), (8), (9) and (10).

The Contractor shall appoint a construction supervisor responsible for construction activities and

ensuring occupational health and safety compliance on the construction site.

The Contractor may also have to appoint one or more competent employees to assist the construction supervisor where justified by the scope and complexity of the works.

E8.4 Health and safety representatives

In terms of Sections 17 and 18 of the Act (OHSA 1993) the Contractor, being the employer in terms of the Act for the execution of the contract, shall appoint a **health and safety representative** whenever he has more than 20 employees in his employment on the site of the works. The health and safety representative must be selected from employees who are employed in a full-time capacity at a specific workplace.

The number of health and safety representatives for a workplace shall be at least one for every 50 employees.

The function of health and safety representative(s) will be to review the effectiveness of health and safety measures, to identify potential hazards and major incidents, to examine causes of incidents (in collaboration with his employer, the Contractor), to investigate complaints by employees relating to health and safety at work, to make representations to the employer (Contractor) or inspector on general matters affecting the health and safety of employees, to inspect the workplace, plant, machinery, etc. on a regular basis, to participate in consultations with inspectors and to attend meetings of the health and safety committee.

E8.5 Health and safety committee

In terms of Section 19 of the Act (OHSA 1993), the Contractor (as employer) shall establish one or more **health and safety committees** where there are two or more health and safety representatives at a workplace. The persons selected by the Contractor to serve on the committee shall be designated in writing.

The function of the health and safety committee shall be to hold meetings at regular intervals but at least once every three months, to review the health and safety measures on the contract, to discuss incidents related to health and safety with the Contractor and the inspector, to make recommendations regarding health and safety to the Contractor and to keep record of recommendations and reports made by the committee.

E8.6 Competent persons

The Contractor shall appoint in writing designated competent employees and/or other competent persons as required by the Act and Regulations. Such appointments shall be in accordance with the relevant applicable sections of the Act and Regulations as determined by the requirements of the contract.

A competent person may be appointed for more than one part of the construction work with the understanding that the person must be suitably qualified and able to supervise at the same time the construction work in all the work situations for which he has been appointed.

The appointment of competent persons to supervise parts of the construction work does not relieve the Contractor from any of his responsibilities for compliance with $\underline{\mathbf{all}}$ requirements of the Construction Regulations.

E9. RECORDS AND REGISTERS

The Contractor shall keep records and registers related to health and safety on site as required by the relevant applicable sections of the Act and Regulations as determined by the requirements of the contract. Such records and registers shall be available for periodic inspection by inspectors, the Employer, the Employer's Agent, the Construction Health and Safety Agent, subcontractors, employees and representatives of trade unions.

E10. CONTRACTOR'S RESPONSIBILITIES

For this contract the Contractor will be the mandatary of the Employer (Client), as defined in the Act (OHSA

1993), which means that the Contractor has the status of employer in his own right in respect of the contract. The Contractor is therefore responsible for all the duties and obligations of an employer as set out in the Act (OHSA 1993) and the Construction Regulations 2014.

Before commencement of work under the contract, the Contractor shall enter into an agreement with the Employer (Client) in terms of C1.4 'Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993', to confirm his status as mandatary (employer) for the contract under consideration.

The Contractor is advised in his own interest to make a careful study of the Act and the Construction Regulations, as ignorance of the Act and the Regulations will not be accepted in any proceedings related to non-conformance to the Act and the Regulations.

E11. MEASUREMENT AND PAYMENT

It is a condition of this contract that contractors who submit tenders for this contract shall make provision in their various tendered rates and prices for all costs related to the health and safety measures required in terms of the Act and Regulations during the construction process.

(a) Health and safety plan

The Contractor shall assess the risks associated with the Works when preparing the health and safety plan. In addition, the Contractor shall implement the health and safety plan, including the provision of a dedicated, full time health and safety officer, carrying out all the required site health and safety training and briefings, staff medical evaluations, monitoring and administrating the health and safety plan and for supplying all transport, personal protection safety items, other health and safety equipment, safety notices and any other health and safety related items that are required on site. Provision is made for the costs of preparing and implementing the health and safety plan in item B13.03 of the Bill of Quantities.

(b) Safety appointments

No separate additional payment will be made to cover the costs related to persons appointed as required in terms of the Act and Regulations to fulfil the various health and safety functions. Such persons include the Construction Manager, any assistant construction managers, the construction health and safety officer, the construction supervisor, any assistant construction supervisors, health and safety representatives, health and safety committee members and competent persons, all as referred to in subclauses E8.1 to E8.6 above. The Contractor shall therefore make provision in the various tendered rates and prices for all costs related to such persons, and for which no separate additional payment will be made except to the extent provided in item B13.03 of the Bill of Quantities.

(c) Records and registers

The keeping of records and registers related to health and safety on site as described in clause E9 above shall be regarded as a normal duty of the Contractor for which payment shall be deemed to be included in the Contractor's various tendered rates and prices, and for which no separate additional payment will be made except to the extent provided in item B13.03 of the Bill of Quantities.

(d) Medical certificates

No separate additional payment will be made to cover the costs related to obtaining the medical certificates of fitness required for every employee, including subcontractors and their employees, issued in compliance with Construction Regulation 7(1)(g) or 7(8) as applicable. The Contractor shall therefore make provision in the various tendered rates and prices for all costs related to such medical certificates, and for which no separate additional payment will be made except to the extent provided in item B1.3 of the Bill of Quantities.

ANNEXURE 2

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (Regulation 4 of the Construction Regulations, 2014)

NOTIFICATION OF CONSTRUCTION WORK

1.	(a)	Name and postal address of principal contractor:
	(b)	Name and telephone number of principal contractor's contact person:
2.	Princ	cipal contractor's compensation registration number:
3.	(a)	Name and postal address of client:
	(b)	Name and telephone number of client's contact person or agent:
4.	(a)	Name and postal address of designer(s) for the project:
	(b)	Name and telephone number of designer's(s') contact person(s):
5.		e and telephone number of principal contractor's construction manager on site appointed ms of regulation 8(1):
6.		e(s) of principal contractor's assistant construction manager(s) on site appointed in terms gulation 8(2):

ANNEXURE 2 - Continued

7.	Exact physical address of the construction site or s	
0		
Ö.	Nature of the construction work:	
•		
9.	Expected commencement date:	
	Expected completion date:	
11.	Estimated maximum number of persons on the co	
	Total: Male:	
12.	Planned number of contractors on the construction	n site accountable to principal contractor:
13.	Name(s) of contractors already selected:	
Pri	ncipal Contractor	Date
Cli	ent's Agent (where applicable)	Date
 Clie	ent	Date

• THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

C3.3 PARTICULAR SPECIFICATIONS

PART F: EXPANDED PUBLIC WORKS PROGRAMME

PART F: EXPANDED PUBLIC WORKS PROGRAMME

F1. SCOPE

This part provides the specifications with regard to the following:

- (a) The Expanded Public Works Programme (EPWP); and
- (b) The National Youth Service (NYS) programme, which is a government programme implemented by the National Department of Public Works forming part of the Expanded Public Works Programme (EPWP).

The Contractor shall be required to participate in job creation (employment of local labour) by executing various portions of the Works using local labour (unskilled or semi-skilled), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project). Such local labour shall be the targeted participants in the EPWP and NYS programmes.

Furthermore, in order to avoid duplication of training facilities, the provision of training facilities for all structured training, including for the structured training described in Part G: Small Contractor Development (in those instances where Part G is included in the contract), shall be measured and paid for in terms of the pay items provided in this Part F.

F2. EXPANDED PUBLIC WORKS PROGRAMME (EPWP)

F2.1 Labour enhanced construction, supervision and management for the Expanded Public Works Programme (EPWP)

The Expanded Public Works Programme (EPWP) is a multi-sectoral government initiative to create jobs. In the case of the infrastructure sector, existing government expenditure is realigned using labour enhanced technologies to create job opportunities. This involves the use of both labour and construction equipment, where labour is preferred and construction equipment is used appropriately.

All work undertaken in terms of the Expanded Public Works Programme (EPWP) shall be implemented using labour enhanced construction methods to the extent economically feasible, in accordance with the "Guidelines for the Implementation of Labour-Enhanced Infrastructure Projects under the Expanded Public Works Programme (EPWP) Third Edition 2015".

The aforementioned guidelines can be downloaded from the EPWP website of the Department of Public Works (http://www.epwp.gov.za/).

Contractors shall note that they shall employ in labour-enhanced works only the following supervisory and management staff that have completed the required Skills Programme in terms of Appendix C of the aforementioned guidelines:

- (a) Foremen / Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes";
- (b) Site Agent / Construction Manager at NQF level 5 "Manage Labour-Enhanced Construction Processes" or equivalent Quality Council for Trades and Occupations (QCTO) qualifications at NQF level 5 or 7.

In addition to their normal supervisory and management functions, the aforementioned supervisory and management staff shall also be responsible for setting the workers' daily tasks in accordance with labour-enhanced construction principles, and for ensuring that the EPWP job creation reporting data is accurately recorded on a daily basis and compiled and submitted to the Employer each month in accordance with clause F4 of this Part F.

F2.2 Labour laws applicable to the Expanded Public Works Programme (EPWP)

The work to be undertaken on this contract by unskilled or semi-skilled workers under the Expanded Public Works Programme (EPWP) shall be implemented in accordance with:

- (a) the Code of Good Practice for Employment and Conditions of Work for Expanded Public Works Programmes (EPWP), issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No. 129 of 18 February 2011 (Government Gazette No. 34032 of 18 February 2011); and
- (b) Ministerial Determination 4: Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice No. R347 of 4 May 2012.

The aforementioned Government Notice No. R347 contains the standard terms and conditions for workers employed in elementary occupations on an Expanded Public Works Programme (EPWP). These terms and conditions do not apply to persons employed in the supervision and management of an Expanded Public Works Programme (EPWP).

The above documents can be downloaded from the EPWP website of the Department of Public Works (http://www.epwp.gov.za/).

F2.3 Persons to be employed under the Expanded Public Works Programme (EPWP)

All local labour required for the execution of labour-enhanced works shall be engaged strictly in accordance with prevailing legislation.

The Contractor shall, through the Project Liaison Committee (PLC) and with the assistance of the Community Liaison Officer (CLO), inform the local community of the labour-enhanced works proposed and the employment opportunities thereby presented.

The Contractor shall determine the minimum education level / skills required to undertake the works specified. In consultation with the PLC and the War Room convener for each relevant ward, selection of the local labour shall be made from households on the Operation Sukuma Sakhe (OSS) database profiled through the War Room for each ward. The list obtained from the OSS database must be accompanied by a letter from the War Room convener confirming that all the information provided was sourced from the War Room and that all listed incumbents reside within the relevant ward. The Contractor must maintain records of household profiles as part of the portfolio of evidence for selection. Selection shall be based on the minimum education level / skills required and the most-needy households, as determined by the household profiling. Preference shall be given for at least one person from each household in the community to be employed before further persons are considered for selection.

The Contractor shall endeavour to ensure that the number of temporary jobs using local labour (<u>unskilled or semi-skilled</u>), recruited from the local community, who are South African Citizens or foreigners in possession of a work visa issued by the Department of Home Affairs (only one such foreigner may be employed on any project), shall include for a minimum allocation of:

- (a) 60% women;
- (b) 55% youth who are between the ages of 18 and 35; and
- (c) 2% persons with disabilities.

All labour recruitment, employment and associated risks shall remain the sole responsibility of the contractor.

The contractor shall comply with the minimum supervisor to worker ratio stated below, required to ensure the effective supervision of the labour-enhanced works for all LI activities undertaken on this project:

Minimum supervisor to worker ratio = 1:10

F2.4 Contract of employment with persons employed under the Expanded Public Works Programme (EPWP)

The Contractor shall enter into a formal contract of employment with each person employed under the Expanded Public Works Programme (EPWP), using the pro forma contract of employment attached at the end of this Part F of section 3.3 Particular Specifications.

The Contractor shall note that all such formal contracts of employment entered into with persons employed under the Expanded Public Works Programme (EPWP) shall expire on 31 March each year, and the Contractor shall therefore be required to enter into new contracts with such persons as of 1 April each year.

F2.5 Employment of targeted labour under the Expanded Public Works Programme (EPWP)

The Contractor shall be contractually obliged to:

- (a) brief EPWP workers on the conditions of employment;
- (b) enter into a formal contract of employment with each EPWP worker, which contract will form part of the Employment Agreement;
- (c) keep personnel files for all EPWP workers and make copies available to the Employer if and when requested; and
- (d) ensure that payments to EPWP workers are made in accordance with Government Notice No. R347.

The rate of pay for persons employed under the Expanded Public Works Programme (EPWP) shall be the gazetted rate:

- (i) per task (for task-rated workers); or
- (ii) per day (for time-rated workers).

During those periods when an EPWP worker is engaged in formal classroom training (other than in-service training), the rate of pay shall be equal to the minimum wage rate as set on an annual basis in the Ministerial Determination for the Expanded Public Works Programme.

Tasks set by the Contractor shall be such that:

- (a) the average EPWP worker completes 5 tasks per week in 40 hours or less; and
- (b) the weakest EPWP worker completes 5 tasks per week in 55 hours or less.

The Contractor shall revise the time taken to complete a task whenever it is established that the time taken per week to complete the tasks set does not fall within the limits indicated in (a) and (b) above.

F2.6 Training of persons employed under the Expanded Public Works Programme (EPWP)

The training of persons employed under the Expanded Public Works Programme (EPWP) is described in clause F4 below.

F2.7 Contractor's obligations towards persons employed under the Expanded Public Works Programme (EPWP)

Over and above implementing in accordance with Government Notice Nos. 129 and R347 the EPWP work to be undertaken on this contract, it shall be the responsibility of the Contractor to carry out the following functions with respect to the EPWP workers:

(a) ensure that all participants are covered by the Compensation for Occupational Injuries and Diseases Act, 1993, for as long as they are contracted to the Contractor, and pay in full to the Compensation Commissioner such amounts as are due in terms of the Act;

- (b) pay in full to the Unemployment Insurance Fund for all participants such UIF contribution amounts as are due in terms of the Unemployment Insurance Act, 2001, as amended, and the Unemployment Insurance Contributions Act, 2002, as amended, and provide proof of such UIF payments upon request;
- (c) ensure that all participants are paid their wages on time through the pre-agreed payment method as stipulated in the participant contract of employment;
- (d) implement health and safety procedures with respect to the participants, ensuring that the health and safety regulations are adhered to;
- (e) ensure that all participants receive induction on site safety prior to commencing with work on site;
- (f) provide all participants with the necessary protective clothing and equipment as required by law for the specific tasks in which the participants are involved, in addition to the branded overalls stipulated for EPWP workers;
- (g) provide safe on-site storage facilities for apparel and tools issued to the participants;
- (h) assist in the assessment of participants with regard to their competencies;
- (i) provide overall supervision and day-to-day management of participants; and
- (j) implement strict quality control to ensure that the work carried out by the participants is of the required standard, and, where necessary, to train and mentor the participants to assist them in achieving the standards required.

F2.8 Apparel and tools for persons employed under the Expanded Public Works Programme (EPWP)

The Contractor shall provide Personal Protective Equipment (PPE) to all EPWP workers in accordance with the requirements arising from Part E: OHSA 1993 Health and Safety Specification and the Contractor's site-specific health and safety plan and accompanying risk assessments.

Where indicated below, certain items of the PPE issued by the Contractor to the EPWP workers shall include branded EPWP markings in accordance with the attached branding requirements.

PPE shall comprise the following:

- (a) Compulsory PPE issued to all EPWP workers for use during general work activities:
 - (i) Protective overalls (two sets), green in colour, with EPWP branding;
 - (ii) Lime green reflective safety vest with EPWP branding;
 - (iii) Protective footwear; and
 - (iv) Protective gloves.
- (b) PPE issued to EPWP workers for specific activities where required in terms of the Contractor's sitespecific health and safety plan and accompanying risk assessments, such as:
 - (i) Protective headwear, green in colour, with EPWP branding;
 - (ii) Protective eyewear such as spectacles and goggles;
 - (iii) Protective face shields;
 - (iv) Protective earplugs and earmuffs;
 - (v) Respiratory masks;
 - (vi) Disposable safety apparel;
 - (vii) Kidney belts;
 - (viii) Safety harnesses; and
 - (ix) Any other protective equipment identified.

The Contractor shall replace any item of issued PPE that becomes unserviceable.

The Contractor shall not charge any fee to the EPWP workers for the prescribed PPE issued except under the following circumstances:

- (i) where the employee requests the issue of additional PPE in excess of what is prescribed;
- (ii) where the employee has patently abused or neglected the issued PPE leading to early failure; or
- (iii) where the employee has lost the issued PPE.

The Contractor shall instruct and train the EPWP workers in the use of all PPE issued, and shall ensure that they use the prescribed equipment.

EPWP workers shall not have the right to refuse to use or wear the equipment prescribed by the Contractor. If it is not possible for an EPWP worker, through health or any other reason, to use or wear the prescribed PPE issued, such employee shall not be allowed to continue working under the hazardous conditions for which the equipment was prescribed. Under such circumstances an alternative solution shall be found, and this may include relocating or discharging the employee.

The Contractor shall provide each EPWP worker with hand tools of adequate quality and of the type required to carry out the assigned tasks safely and efficiently.

The Contractor shall instruct and train the EPWP workers in the safe and efficient use of all hand tools issued.

The Contractor shall maintain the issued tools in a serviceable and safe working condition.

The EPWP workers shall be responsible for the safe on-site storage of all PPE and tools issued to them, using the storage facilities provided on site by the Contractor.

No separate payment shall be made for providing the EPWP workers with PPE, or for providing relevant items of PPE in the specified colours with branded EPWP markings. Furthermore, no separate payment shall be made for providing the EPWP workers with hand tools or for providing them with safe storage facilities on site for PPE and tools. The Contractor shall therefore make provision for all costs related to providing the PPE, tools and safe storage facilities in the tendered rates and prices for the various items of work scheduled throughout the bill of quantities.

F2.9 EPWP contract signboard

The Contractor will be required to erect a contract signboard displaying the EPWP logo, indicating that this project is part of the Expanded Public Works Programme (EPWP). Provision for the costs related to the provision, erection and subsequent removal of the contract signboard is made in pay item provided in chapter 1.3 of the bill of quantities for this purpose.

F2.10 Payment matters relating to the EPWP work

F2.10.1 General

No separate pay items shall be provided in terms of Part F of the bill of quantities for the construction work activities carried out by EPWP participants. Payment for such work activities shall be made only indirectly, in terms of the pay items scheduled for the work activities in which such persons are engaged.

Furthermore, no direct payment will be made to cover the Contractor's costs associated with implementing the on-site work programme for the EPWP participants, for planning, organising, directing, controlling and administrating their day to day activities, including the setting of daily tasks, record keeping and any on-site liaison, training and mentoring required, and for the associated job creation reporting, and such costs shall therefore be built into the rates tendered for the various items of work scheduled throughout the bill of quantities.

F2.10.2 Payment for labour-enhanced components of the work

Payment will be made for items which are designated for labour-enhanced construction in the bill of quantities only in those instances where such items are constructed using labour-enhanced methods.

Any unauthorised use of construction equipment to carry out work which was scheduled to be carried out using labour-enhanced methods will not be condoned and any Works so constructed will not be certified for payment. Any non-payment for such Works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

During the course of construction, as a result of unforeseen site conditions or operating conditions encountered, it may happen that an item designated for labour-enhanced construction can no longer be carried out in a safe and economically feasible manner, either in full or in part, using labour-enhanced methods. In such instances the Employer's Agent shall, where necessary, order a variation in terms of clause 6.3 of the of the General Conditions of Contract 2015 with respect to that portion of the item quantity that cannot be carried out using labour-enhanced methods.

F2.11 Penalty applicable to any shortfall in the local labour content achieved

The amount spent on wages for local labour (excluding VAT) for this project, as certified by the Employer's Agent, shall equal or exceed the specified minimum percentage of the contract amount which is the Contract Price (adjusted to exclude penalties and value added tax).

The Contractor is obliged to commit to or exceed the specified minimum percentage of local labour content stated in section C1.2.2 Data Provided by the Employer.

In the event that the Contractor fails to substantiate that any failure to achieve the minimum required local labour content for this project is due to quantitative underruns, the elimination of items contracted to local labour, or any other reason beyond the Contractor's control which may be acceptable to the Employer, the Contractor shall be liable for a financial penalty as prescribed in clause SCC 4.1.1 of section C1.2.1.2 Special Conditions of Contract. The financial penalty shall be calculated as follows:

$$P = 0.05 x [(E - E_0)/100] x C_A$$

where:

- E is the specified minimum percentage for local labour content
- E_o is the local labour content percentage which the Employer's Agent certifies as being achieved upon completion of the contract
- C_A is the contract amount which is the Contract Price (adjusted to exclude penalties and value added tax)
- P is the monetary value of penalty payable

The penalty shall not apply to shortfalls in the allocations to the individual target groups (i.e., Women/Youth/Disabled as per clause F1.3 above), only to shortfalls in the total local labour content achieved.

The evaluation of the Contractor's achievement of the local labour content percentage shall be undertaken monthly by the Employer's Agent, based on the accumulative achievements in comparison to the programmed utilisation of local labour, as a means of monitoring the Contractor's performance in achieving the Contract Participation Goal.

Failure by the Contractor to achieve the Contract Participation Goal target by the time of Practical Completion, shall result in the financial penalty being applied as prescribed in this clause. The Employer's Agent shall make a final determination of the Contractor's achievement of the Contract Participation Goal based on the value of the Final Payment Certificate.

F3. NATIONAL YOUTH SERVICE (NYS)

The Employer requires the implementation of National Youth Service (NYS) programmes on this project.

F3.1 The National Youth Service (NYS) programme

The National Youth Service (NYS) programme aims to train young people and provide them with practical work experience. The young people will be allocated tasks by the Contractor that will assist the Contractor with the execution of the contract.

F3.2 Applicable labour laws

The work to be undertaken on this contract by unskilled or semi-skilled workers under the National Youth Service (NYS) programme shall be implemented in accordance with the same Code of Good Practice and Ministerial Determination as described in clause F2.2 above for work to be undertaken under the Expanded Public Works Programme (EPWP).

F3.3 Employer's project manager

The Contractor shall be required to liaise closely with the Employer's project manager who is responsible for the recruitment and training of the NYS workers.

F3.4 Persons to be employed under the NYS programme

For purposes of this contract, the Contractor shall be required to employ 40 youths aged between 18 and 35 for a period of 6 months each under the NYS programme.

The Employer's project manager shall provide the Contractor with a list of the 40 youths to be employed and the training that each of these 40 youths have received to date, and only these 40 youths shall be employed by the Contractor under the NYS programme.

F3.5 Contract of employment with persons employed under the NYS programme

The Contractor shall enter into a formal contract of employment with each youth employed under the NYS programme, using the pro forma contract of employment attached at the end of this Part F of section 3.3 Particular Specifications.

F3.6 Employment of NYS workers

The Contractor will be contractually obliged to:

- (a) employ all participants on the list provided by the Employer's project manager;
- (b) brief NYS workers on the conditions of employment;
- enter into a formal contract of employment with each NYS worker, which contract will form part of the Employment Agreement;
- (d) keep personnel files for all NYS workers and make copies available to the Employer's project manager if and when requested; and
- (e) ensure that payments to NYS workers are made in accordance with Government Notice No. R347.

During the period when they are engaged in formal classroom training (other than in-service training), the youths employed under the NYS programme shall be paid the minimum wage rate as set by the Department of Labour on an annual basis in the Ministerial Determination for the Expanded Public Works Programme, and should there be an upward adjustment in the rate the Contractor will be compensated accordingly. During the period when they are engaged in productive work activities required for elements of the Works, they shall be paid in terms of the wage rates stated in clause F2.5 above.

F3.7 Training of youth workers

All NYS workers will be placed on an extensive training programme that will include:

- (a) an induction into NYS and EPWP:
- (b) life skills training;
- technical training focusing on a vocational skill to be used on the project (e.g. painting or carpentry);
 and
- (d) entrepreneurship and business skills training.

All training will be arranged by the Employer's project manager, with whom the Contractor will be required to work closely to schedule the training sessions so that the timing of the training is aligned with the Contractor's work schedule and his demand for workers with specific skills. The Employer's project manager will make full details of the training programme available to the Contractor.

A compulsory 10-day life skills training must be provided before commencement of classroom training on NYS. This type of training must be provided by a NYDA accredited service provider as per the National Youth Service Framework from the National Department of Public Works.

The Contractor shall maintain comprehensive records of the training received by each NYS worker throughout the course of the contract and shall submit to the Employer at each monthly site meeting a summary of the accumulated training received by each NYS worker.

The training of the NYS workers shall take place using the same training facility provided for the training of all other EPWP participants (refer to clause F5 below).

F3.8 Contractor's obligations towards persons employed under the NYS programme

Over and above implementing in accordance with Government Notice Nos. 129 and R347 the NYS programme work to be undertaken on this contract, it shall be the responsibility of the Contractor to carry out the following functions with respect to the NYS programme workers:

- (a) ensure that all participants are covered by the Compensation for Occupational Injuries and Diseases Act, 1993, for as long as they are contracted to the Contractor, and pay in full to the Compensation Commissioner such amounts as are due in terms of the Act;
- (b) pay in full to the Unemployment Insurance Fund for all participants such UIF contribution amounts as are due in terms of the Unemployment Insurance Act, 2001, as amended, and the Unemployment Insurance Contributions Act, 2002, as amended, and provide proof of such UIF payments upon request;
- (c) ensure that all participants are paid their wages on time through the pre-agreed payment method as stipulated in the participant contract;
- (d) implement health and safety procedures with respect to the participants, ensuring that the health and safety regulations are adhered to;
- (e) ensure that all participants receive induction on site safety prior to commencing with work on site;
- (f) provide all participants with the necessary protective clothing and equipment as required by law for the specific trades in which the participants are involved, in addition to the branded overalls stipulated for NYS workers;
- (g) provide safe on-site storage facilities for apparel and tools issued to the participants;
- (h) assist in the assessment of participants with regard to their competencies in their respective trades;
- (i) provide overall supervision and day-to-day management of participants; and
- (j) implement strict quality control to ensure that the work carried out by the participants is of the required standard, and, where necessary, to train and mentor the participants to assist them in achieving the standards required.

F3.9 Apparel and tools for NYS workers

The content of clause F2.8 above with regard to apparel and tools for EPWP workers shall apply equally to NYS workers, except that:

- (a) apparel and tools to be issued to NYS workers shall be determined in conjunction with the Employer's project manager;
- (b) the required branding of apparel to be issued to NYS workers shall be determined in conjunction with the Employer's project manager, and shall also include the NYS logo;
- (c) additional PPE may be required depending on the NYS worker's specific trade;
- (d) certain specified apparel and tools issued to the NYS workers will become the property of the NYS workers after the completion of their cycle of work on the project, in order to enable them to continue to practise their trade on future projects. Such apparel and tools shall be specified and authorised by the Employer's Agent; and
- (e) separate payment items have been provided in Part F of the bill of quantities to cover all costs associated with the provision of the necessary tools and apparel, including safety apparel, for the NYS workers, and the facilities for the safe storage thereof, all as authorised by the Employer's Agent.

F3.10 EPWP-NYS contract signboard

Where work takes place under the National Youth Service (NYS) programme, the NYS logo shall also be displayed on the EPWP contract signboard referred to in clause F2.9 above, indicating that this project is part of both the Expanded Public Works Programme (EPWP) and the NYS programme. Provision for the costs related to the provision, erection and subsequent removal of the contract signboard in the pay item provided in chapter 1.3 of the bill of quantities for this purpose.

F3.11 Payment matters relating to the NYS work

No direct payment will be made to cover the Contractor's costs associated with implementing the on-site work programme for the NYS workers, for planning, organising, directing, controlling and administrating their day to day activities, including the setting of daily tasks, record keeping and any on-site liaison, training and mentoring required, and for the associated job creation reporting, and such costs shall therefore be built into the rates tendered for the various items of work scheduled throughout the bill of quantities.

F4. JOB CREATION REPORTING FOR EPWP

In order to assist the Employer in complying with the goal of creating EPWP job opportunities, the Contractor must provide the information specified in clause F4.1 below for reporting purposes.

In addition, the Contractor's payment certificates shall be accompanied by the information specified in clause F4.2 below.

F4.1 Type of project data required per project

Every EPWP project shall collect and keep specific project data for the purpose of EPWP progress reporting on a monthly basis, using the EPWP Data Collection Tool template (this will be made available to the Contractor in Microsoft Excel format - refer to the pro forma spreadsheets at the end of this Part F of the Particular Specifications).

The data that is required to be kept, maintained and reported on a monthly basis for each project includes:

F4.1.1 Participant (local labour) data

A participant list of the local labour employed must be maintained for every EPWP project. The data required in this participant list is indicated below. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting. The participant list shall contain the following data and shall be kept and maintained on site for audit purposes:

- (a) Participant identity name, surname, initials, date of birth and identity number (or other unique identifier) plus certified copy of ID book.
- (b) Participant profiles nationality, gender, age, education level and disability status.
- (c) Work data for participants daily wage to be received, number of calendar days training attended and number of calendar days worked.
- (d) Records of training as required in terms of the EPWP Data Collection Tool template.

In addition, the signed contracts of employment between the Contractor and each EPWP participant shall be kept and maintained on site for audit purposes.

F4.1.2 Project work data

The project work data generally seeks to confirm the number of people at work daily on the project. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting. The data shall be maintained on site by the Contractor, in order that it can be provided by the Employer to the National Department of Public Works upon request when the latter is undertaking sample auditing. These records shall be kept by the Contractor for a period of three years after contract completion should they be required for audit purposes.

The data shall include:

- (a) Daily attendance register register for each day showing all the workers that were registered as being at work on that day. Attendance registers shall be completed on site on a daily basis and signed off by the Contractor on a weekly basis. Refer to pro forma attendance register attached at the end of this Part F of section 3.3.
- (b) Summary of monthly attendance.

F4.1.3 Project payment data

The project payment data generally seeks to confirm what was paid, for how much work and to whom. This data shall be recorded, checked and signed off by the Contractor, and shall be submitted to the Employer at each monthly site meeting.

It is required that the Contractor adopt one of the following methods as standard procedure for recording and maintaining this information:

- (a) Payment register this is a list of the workers showing the wages paid to each worker, and signed off by each worker as proof of receipt and acceptance of payment. Information on this register must include the name of the worker, either an identity number or other unique identifier, the number of calendar days that the pay period covers, the wage rate and the total wages paid; or
- (b) Bank records showing the transfers to each worker account, signed off by the Contractor as proof of payment these bank records must specifically show the name of the worker, either an identity number or other unique identifier, the period which the pay covers and the total wages paid.

The project payment data, as recorded and maintained by the Contractor in terms of either (a) or (b) above, must be available and applicable for the entire period for which the Employer claims an incentive reward for person-days of work created in terms of the project.

F4.1.4 Employment output data

The Contractor shall submit to the Employer at each monthly site meeting a progress report detailing production output compared to the programme of works, together with the data necessary to enable the Employer to calculate the following employment output data in accordance with the EPWP Data Collection Tool template:

- (a) Number of work opportunities created (where <u>one</u> work opportunity = paid work created for <u>one</u> individual on an EPWP project, for any period of time).
- (b) Number of person-days of work created (where <u>one</u> person-day = <u>one</u> day of work carried out by <u>one</u> individual). The total number of person-days of work created on a particular EPWP project shall be obtained by summing the total number of person-days worked by each individual employed during the course of that EPWP project.
- (c) Number of Full Time Equivalents (FTE) created (= total number of person-days of work created on the EPWP project divided by 230 working days). In terms of EPWP policy, <u>one</u> year of work created for <u>one</u> individual is assumed to comprise a total of 230 days of paid work carried out by that individual.
- (d) Average duration of work opportunities created (= total number of person-days of work created on the EPWP project divided by the number of work opportunities created on that EPWP project).
- (e) Average daily wage rates paid (= accumulated total of the wages paid to all individuals employed on an EPWP project divided by the total number of person-days of work created on that EPWP project).
- (f) Training information.

F4.2 Project data to be submitted with the Contractor's payment certificates

The Contractor's payment certificates shall be accompanied by labour returns providing the labour information for the corresponding period in a format specified by the Employer.

Should the Contractor choose to delay submitting payment certificates, the labour returns shall nevertheless still be submitted as per the frequency and timeframes stipulated by the Employer. The Contractor's payment certificates shall not be paid by the Employer until all pending labour information has been submitted.

The following information shall be maintained on site and submitted with each payment certificate in the format specified by the Employer:

- (a) Copies of the signed contracts between the Contractor and any new EPWP participants (the Contractor shall note that all such formal contracts of employment entered into with persons employed under the Expanded Public Works Programme (EPWP) shall expire on 31 March each year, and the Contractor shall therefore be required to enter into new contracts with such persons as of 1 April each year, and shall be required to submit copies of all such new contracts with the first payment certificate thereafter);
- (b) Certified ID copies of all local labour employed as EPWP participants;
- (c) Attendance registers for the EPWP participants;
- (d) Proof of payment of EPWP participants; and
- (e) Information as required in terms of the EPWP Data Collection Tool template.

F5. PROVISION OF STRUCTURED TRAINING

F5.1 Scope of structured training

In order to avoid duplication of training facilities, the training described in Part G: Small Contractor Development (in those instances where Part G is included in the contract), shall be provided utilising the training facility measured and paid for in accordance with the requirements of this Part F: Expanded Public Works Programme (EPWP).

The Employer's objectives include the training of local labour and Targeted Enterprises within a structured programme, in order to equip them with skills that will assist them in gaining future employment, and to facilitate targeted EPWP participants in gaining competencies and unit standard credits towards future full learnership qualifications.

Such training shall contain both theoretical and practical components and shall be conducted in accordance with the various laws and regulations contained in the South African Qualifications Authority (SAQA) statutes.

The following aspects of the structured training to be provided are noted:

- (a) The Employer has no service agreement or memorandum of understanding with any Education and Training Quality Assurance (ETQA) body, and therefore does not function as the employer as defined under any three-party learnership agreement between the learner, the training provider and the employer.
- (b) The structured training programmes implemented on this contract, although comprising several unit standards, are unlikely to total to sufficient credits for a full learnership qualification. Nevertheless, the competencies and credits achieved should contribute to a full learnership through the later acquisition by the learner of the remaining unit standards required for the full learnership.

The Contractor shall be required to provide a training facility on the Site, or in close proximity thereto, and to provide over the duration of the contract the following structured training for EPWP participants:

- (a) Generic skills training;
- (b) Entrepreneurial skills training;
- (c) Construction skills training; and
- (d) In-service training.

Generic skills training and in-service training shall be provided to all EPWP participants.

Entrepreneurial and construction skills training shall be provided to targeted EPWP participants only.

F5.2 Training provider and trainers

The Contractor shall be required to procure the services of a training provider accredited by the Construction Education and Training Authority (CETA).

The training provider shall have in its employ trainers who are registered as assessors with the Construction Education and Training Authority (CETA), and who shall deliver the training.

Proof of the accreditation of the service provider and the registration of the trainers by the CETA shall be submitted to the Employer's Agent. Such accreditation and registration shall be current and valid, and the proof submitted shall include the NQF levels and unit standards for which each trainer is accredited.

F5.3 Skills analysis and selection of targeted EPWP participants

Studying for any learnership requires minimum literacy and numeracy competencies as defined by SAQA. The actual literacy and numeracy levels of the persons employed on the Site shall provide a basis to guide the Contractor and the training provider on how to conduct the selection process.

The Contractor shall therefore conduct a skills analysis of the local labour and Targeted Enterprises employed, in order to determine the formal education qualifications of each employee.

The Contractor, in conjunction with the training provider, shall then identify those persons that display the potential to benefit from such structured entrepreneurial and construction skills training as may be provided for in the contract, and shall make recommendations in this regard to the Employer's Agent.

The final candidates selected for such training shall be decided between the Contractor and the Employer's Agent (or by the Project Management Team (PMT) in the case of training for Targeted Enterprises in terms of Part G: Small Contractor Development, where applicable).

F5.4 Structured training programmes

The Contractor, supported by the training provider, shall plan then implement structured training programmes for generic, entrepreneurial and construction skills training.

Training courses shall commence within four months of the Contractor taking possession of the Site, and shall be completed before the Due Completion Date.

All training shall take place within normal working hours, or as otherwise agreed with the learners.

The training provider shall design, compile and deliver the structured training programmes, based on the information obtained from the skills analysis.

F5.4.1 Generic skills training

The structured training programmes designed by the training provider for the generic skills training shall comprise relevant general courses such as basic hygiene and HIV/AIDS awareness, first aid, road safety, managing personal finance, and other courses that would be useful to workers in the road construction industry or as life skills generally.

F5.4.2 Entrepreneurial skills training

The structured training programmes designed by the training provider for the entrepreneurial skills training shall comprise unit standards that contribute towards one or more of the following full learnership qualifications, as appropriate taking into consideration the skills analysis information for the selected candidates (details of the learnership qualifications and the applicable unit standards may be found on the website www.saga.org.za):

ENTREPRENEURIAL SKILLS TRAINING									
Qualification title	SAQA qualification ID	NQF level	Minimum credits	Purpose of qualification					
National Certificate: Supervision of Construction Processes	49053	Level 4	176	Learners found competent against this qualification will be able to execute the supervision of construction processes, with specialisation in a specific context					

F5.4.3 Construction skills training

The structured training programmes designed by the training provider for the construction skills training shall comprise unit standards that contribute towards one or more of the following full learnership qualifications, as appropriate taking into consideration the skills analysis information for the selected candidates (details of the learnership qualifications and the applicable unit standards may be found on the website www.saqa.org.za):

	CONSTRUCTION SKILLS TRAINING											
Qualification title	SAQA qualification ID	NQF level	Minimum credits	Purpose of qualification								
National Certificate: Supervision of Construction Processes	49053	Level 4	176	Learners found competent against this qualification will be able to execute the supervision of construction processes, with specialisation in a specific context								
National Certificate: Construction: Roadworks	24173	Level 3	155	This qualification is for persons who work or intend to work within a construction context on a site, and who seek recognition for essential skills in construction operations in roadworks.								
National Certificate: Construction: Roadworks	24133	Level 2	120	This qualification is for persons who work or intend to work within a construction context on a site, and who seek recognition for essential skills in construction operations in roadworks.								
National Certificate: Occupational Health, Safety and Environment	74269	Level 2	120	This qualification is to equip learners working in any type of workplace with a broad understanding and knowledge of Occupational Health, Safety and Environmental (HSE) concepts and practices with sufficient detail to enable them to function in a safe and healthy way and to deal with health and safety problems and issues.								

F5.4.4 Training programme

The Contractor's proposed training programmes shall be subject to the approval of the Employer's Agent (or the approval of the Project Management Team (PMT) in the case of training for Targeted Enterprises in terms of Part G: Small Contractor Development, where applicable), and the Contractor shall, if so instructed by the Employer's Agent or the PMT, alter or amend the programmes and the course content to meet any additional needs identified.

The Contractor shall be responsible for everything necessary for the delivery of the training programmes, including:

- (a) the provision of the trainers;
- (b) the provision of a suitable secure venue, complete with adequate furniture, lighting, air conditioning, power and ablution facilities;
- (c) the provision of all necessary stationery, consumables and study materials;
- (d) the transportation of the learners to and from the training facility;
- (e) the payment of wages to all learners during the classroom training at a rate equal to the minimum wage rate as set on an annual basis in the Ministerial Determination for the Expanded Public Works Programme:
- (f) the provision of any relevant Personal Protective Equipment (PPE) required for the training; and
- (g) additional supervision of the learners during the practical learning stage of the training carried out by constructing relevant elements of the Works (wages for the learners during this stage of the training will be paid through the rates tendered for the relevant scheduled work items for those elements).

At the successful completion of each course, the Contractor's training provider shall, as proof of attendance and completion, issue each learner with a certificate indicating the course content.

The training provider shall also ensure that each unit standard contributing towards a full learnership qualification and successfully completed by the learner is entered onto the national database.

The Contractor shall keep comprehensive records of the training given to each learner and the certificates issued, and shall provide copies of such records to the Employer's Agent when required.

The Contractor shall also complete and submit to the Employer's Agent each month, in a format acceptable to the Employer (using the EPWP Data Collection Tool template), a return detailing the training provided, both for the month and cumulatively for the contract.

F5.5 In-service training

The Contractor shall, from the commencement of the contract, implement an in-service training programme in which the various skills required for the execution and completion of the Works are imparted to the EPWP participants engaged thereon.

Throughout the duration of the contract, the EPWP participants shall be trained progressively through the various stages of each particular type of work in which they are engaged, and their work shall be supervised and monitored and their methods corrected where necessary.

The in-service training programme shall be submitted with the initial Works programme. The Contractor shall record the progress in relation to this programme on a monthly basis, and this progress report shall be incorporated in the monthly site meeting minutes and the payment certificate.

The Contractor shall provide sufficient skilled and competent trainers to train all EPWP participants engaged on the contract in the various skills required to enable them to carry out the required construction activities.

The in-service training of EPWP participants shall take place before commencement of the relevant construction activity, and the Contractor shall take into account in his programme the lead time required for such training. All in-service training shall be deemed to be an element of the relevant construction activity.

All formal in-service training shall be documented in terms of the EPWP Data Collection Tool template, and shall be accompanied by an attendance register of the EPWP participants on the applicable days.

All EPWP participants shall be remunerated at their agreed wage rate in respect of the time spent undergoing in-service training. The cost of the Contractor's in-service training obligations shall be deemed to be covered by the sums and rates tendered for items B13.01(a), (b) and (c) in the bill of quantities.

On termination of their employment, the Contractor shall provide each EPWP participant engaged on the contract with a certificate of service on which the following information shall be recorded:

- (i) name of the Contractor;
- (ii) name of the project / contract;
- (iii) name of the employee;
- (iv) nature of the work satisfactorily executed by the EPWP participant and the time spent thereon:
- (v) nature and extent of training provided to the EPWP participant; and
- (vi) dates of service.

F5.6 Training venue facility

The training venue facility to be provided by the Contractor shall be constructed, furnished and fully serviced for the duration of the contract in accordance with Chapter 1.4 of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

In order to minimise the cost of transporting the learners for training, the facility shall be located in secure premises on the Site, or in close proximity thereto.

This facility shall be used to deliver all training, irrespective of whether it is delivered in terms of Part E or Part F of the Particular Specifications.

The facility shall accommodate a class of up to 40 learners and shall comprise the following:

(a)	Lecture room (interior area)	=	96 m ²
(b)	Ablutions (male)	=	12 m ²
(c)	Ablutions (female)	=	12 m ²
(d)	Chairs for learners (individual chairs, with backs)	=	25 off
(e)	Desk area for 25 learners (500 mm width)	=	25 m^2
(f)	Chairs for trainers and management (individual chairs, with backs)	=	5 off
(g)	Table area for trainers and management	=	$3 m^2$
(h)	220/250 volt power points	=	12 off
(i)	Double 80 watt fluorescent light fittings complete with ballast and tubes	=	12 off
(j)	Single incandescent light fittings complete with 100 watt globes	=	8 off
(k)	Wash hand basins complete with taps and drains	=	8 off
(I)	Fire extinguishers, 9,0 kg, all-purpose dry powder type, complete,		
	mounted on wall with brackets	=	4 off
(m)	Air conditioning units with 2,2 kW minimum capacity, mounted and		
	with own power connection	=	8 off
(n)	Voltage stabilizers	=	4 off
(o)	Floodlights complete with poles and 500 watt minimum globes and		
	controlled by photocells	=	4 off
(p)	White boards (3 m x 1,5 m)	=	2 off
(q)	Venetian blinds	=	24 m ²

F6. **MEASUREMENT AND PAYMENT**

Item Unit

F6.01 Provision of the training venue facility, including the cost of transporting the learners to and from this facility......lump sum (Sum)

The tendered lump sum for subitem F6.01 shall include full compensation for the provision of the training venue facility complete and serviced as specified, including for the provision of power, water, sewerage and cleaning services for the duration of the contract, for lighting, power points and voltage stabilizers, for air conditioning, blinds, fire extinguishers, floodlights, furniture and whiteboards, for the provision of security at the facility, for all other costs necessary to maintain the facility for the duration of the contract, and for the removal of the facility on completion of the contract.

The tendered lump sum shall also include full compensation for transporting the learners on each day of training from their place of work to this training venue facility, and back again after the training for the day has been delivered by the accredited trainers.

Payment of the lump sum shall be made in three instalments as follows:

The first instalment, 50% of the lump sum, shall be paid after the Contractor has met all his obligations regarding the provision of the training venue facility, complete and serviced as specified, and the facility has been successfully commissioned for use.

The second instalment, 35% of the lump sum, shall be paid when 75% of the training courses proposed in accordance with the Contractor's approved structured training programme have been delivered to the learners by the accredited trainers.

The third and final instalment, 15% of the lump sum, shall be paid when all training has been concluded and the facility has been dismantled and removed from the site.

Item Unit F6.02 Training of learners employed by the contractor or by the Targeted Enterprise subcontractors: Generic skills: (a) (i) Handling costs and profit in respect of subitem F6.02(a)(i)percentage (%) (ii) (b) Entrepreneurial skills: (i) Handling costs and profit in respect of subitem F6.02(b)(i) percentage (%) (ii) (c) Construction skills: (i) Handling costs and profit in respect of subitem F6.02(c)(i)percentage (%) (ii) Transportation and accommodation costs of selected (d) learners only, while receiving off-site training: (i) Transportation and accommodation costs provisional sum (Prov sum) Handling costs and profit in respect of subitem F6.02(d)(i) percentage (%)

(ii)

Expenditure under subitems F6.02(a)(i), (b)(i), (c)(i) and (d)(i) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum for each of subitems F6.02(a)(i), (b)(i) and (c)(i) is provided to cover the total costs of the required training in generic, entrepreneurial and construction skills respectively, including for the procurement of the services of the accredited trainers and their delivery of the training courses to the learners, the provision of all training materials including all stationery and study materials, the wages of the learners for the duration of the courses including the associated COIDA and UIF payments, and the provision of any tools and PPE that may be required during those courses incorporating practical training modules. The payment of wages to learners in terms of subitems F6.02(a)(i), (b)(i) and (c)(i) will only be made to those learners who attend and successfully complete each course of the approved training programme. Payment shall not be made to learners who, once selected, do not attend or only partially complete structured training courses.

The tendered percentage for each of subitems F6.02(a)(ii), (b)(ii) and (c)(ii) is the percentage of the amount actually spent under each of subitems F6.02(a)(i), (b)(i) and (c)(i) respectively, and shall include full compensation for the handling costs of the Contractor and the profit in connection with the provision of the training in generic, entrepreneurial and construction skills respectively, including for the costs of record keeping and reporting with respect to the training received by each learner.

The provisional sum for subitem F6.02(d)(i) is provided to cover all costs related to the transportation and accommodation costs of selected learners only, while receiving off-site training, where such learners have been specifically selected to receive such off-site training and where such training cannot be delivered using the training venue facility provided by the Contractor in terms of subitem F6.01.

The tendered percentage for subitem F6.02(d)(ii) is the percentage of the amount actually spent under subitem F6.02(d)(i), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the transportation and accommodation costs of selected learners only, while receiving off-site training.

Item Unit F6.03 Payments associated with the NYS programme: (a) Employment of NYS workers provisional sum (Prov sum) Provision of tools and apparel for the NYS workers provisional sum (Prov sum) (b) Handling costs and profit in respect of subitems F6.03(a) and (b) percentage (%) (c) Training of NYS workers: (d) Provision of training for NYS workers provisional sum (Prov sum) (i) Handling costs and profit in respect of subitem F6.03(d)(i) percentage (%) (ii) (e) Liaison with the Employer's project manager and the training service provider: Liaison conducted by the Construction Manager......hour (h) (i) (ii) Liaison conducted by the senior site foreman......hour (h)

The provisional sums provided under subitems F6.03(a) and (b) shall be expended in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum under subitem F6.03(a) shall be used to cover the cost of employment payments made by the Contractor to the NYS workers, including the associated COIDA and UIF payments, all as authorised by the Employer's Agent.

The provisional sum under subitem F6.03(b) shall be used to cover all costs associated with the provision of the necessary tools and apparel, including safety apparel, for the NYS workers, and the facilities for the safe storage thereof, all as authorised by the Employer's Agent.

The tendered percentage under subitem F6.03(c) is a percentage of the total amount of expenditure approved by the Employer's Agent under the provisional sum subitems F6.03(a) and (b), and shall include full compensation for attendance by the Contractor, for the handling costs of the Contractor, and for the profit in connection with payments made by the Contractor with respect to the NYS programme implementation.

The provisional sum provided under subitem F6.03(d)(i) shall be expended in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum under subitem F6.03(d)(i) shall be used to cover all costs associated with the provision of training for the NYS workers, including the cost of procuring the services of the accredited trainers and their delivery of the training courses to the NYS workers, and the provision of all training materials including all stationery and study materials.

The tendered percentage under subitem F6.03(d)(ii) is a percentage of the total amount of expenditure approved by the Employer's Agent under the provisional sum subitem F6.03(d)(i), and shall include full compensation for attendance by the Contractor, for the handling costs of the Contractor, and for the profit in connection with payments made by the Contractor with respect to the provision of training for the NYS workers, including for the costs of record keeping and reporting with respect to the training received by each NYS worker.

The unit of measurement for subitems F6.03(e)(i) and (ii) shall be the hour. The tendered rates shall include full compensation for all costs related to the Construction Manager and the senior site foreman respectively for time spent at formal liaison meetings authorised and convened by the Employer's Agent for the specific purpose of liaising with the Employer's project manager and / or the training service provider. The payment shall be made only for the time spent in the formal meeting itself. No payment shall be made for time spent during any other on-site liaison, telephonic liaison, e-mail or written correspondence liaison between these parties, or for liaison conducted with the Employer's project manager and / or the training service provider by any other member of the Contractor's site staff or head office personnel, the cost of all of which shall be deemed to be included in the Contractor's time-related obligations under subitem B13.01(c).

Expanded Public Works Programme:

PPE BRANDING

For EPWP Projects







T-Shirt/Overall/Safety Vest Branding



Logo Options

Implementing Agent Examples



EPWP LOGO

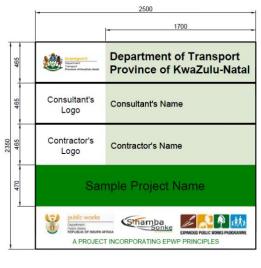


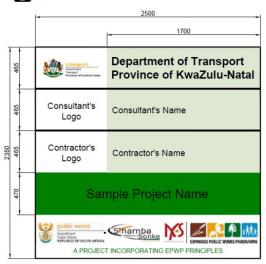
Printing on PPE

PPE (Overalls) shall be Pantone Green with/without reflective tape and shall be branded as follows:

- Implementer's Logo (printed or embroidered) on the left front pocket location ie over the heart position. (full colour)
- EPWP logo on the right front pocket (printed or embroidered) location (full colour)
- The letters EPWP on the back of the PPE in BLACK
- The program name eg Vuk'uphile is to be printed on the right sleeve of short sleeved apparel and need not be placed on long sleeved apparel.
- Where required, lime green safety vests are to be branded with similar specification above. In this instance the Overalls may not necessarily be branded provided that the use of high visibility vests is mandatory.
- All artwork and PPE samples shall be approved and signed off by the consultant prior to printing/embroidering.

Project Signboard









For further information contact:

Petronella Sithebe

Petronella.Sithebe@Kzntransport.gov.za 033-355-8023







6

PRO FORMA EPWP CONTRACT OF EMPLOYMENT

Contractor's Logo



EXPANDED PUBLIC WORKS PROGRAMME

This contract must be read in conjunction with the standard terms and conditions of employment on EPWP attached herein.

EPWP CONTRACT OF EMPLOYMENT between Employer Details Address Name Click or tap here to enter text. Click or tap here to enter text. Telephone Click or tap here to enter text. Email Click or tap here to enter text. Contact Click or tap here to enter text. And **Employee Details** Name Click or tap here to enter text. Surname Click or tap here to enter text. Click or tap here to enter text. Cell Click or tap here to enter text. Sex (M/F) Male 🗆 Female 🗖 Disability Yes 🗌 No 🗀 Click or tap here to enter text. Primary Language Physical Click or tap here to enter text. Click or tap here to enter text. Address Other Languages **Highest Education** Local Click or tap here to enter text. Click or tap here to enter text. Level Achieved Municipality Other qualifications Click or tap here to enter text. Ward Click or tap here to enter text. Yes 🗆 No 🗆 Grant Received (Y/N) Grant type: **Employment Details** Name of project: Click or tap here to enter text. Job Title: Click or tap here to enter text. Duties: Click or tap here to enter text. Click or tap here to Click or tap here to Contract Start Date Contract Finish Date enter text. enter text. The wage per task/day is: R Click or tap here to enter text. I Hour/Day/task (Specifier to select correct rate) Special Conditions You must be aware that this employment contract is a limited term contract and not a permanent job. This employment contract may be terminated for Payment a) You will be paid a fixed amount stipulated above for completing a fixed any one of the following reasons: amount of work. The contractor does not get additional contracts from the EPWP. The amount of work required for the agreed rate of pay will vary from task to task. You will be informed at the beginning of each task or group b) Funding for the programme in your area comes to an end. c) Underperformance: first offence – final written warning. Second of tasks how much work you are expected to complete per day. offence - dismissal. c) You will only be paid for work completed. d) Payment during classroom training shall be R Personal Protective Clothing will be supplied to the employee by the employer depending on the work to be performed, and will remain the property of the employee provided that the employee has worked for at least 3 months. Acceptance Employer Signature: Employer Name: Employee Name: Employee Signature: Witness 1 Name: Witness 1 Signature: Witness 2 Name: Witness 2 Signature:

APPENDIX E - Conditions of Service

Introduction

- 1.1. This document contains the standard terms and conditions for workers employed in elementary occupations on an Expanded public Works Programme (EPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of an EPWP.
- 1.2. In this document –
- a) "department" means any department of the State, implementing agent or contractor;
- b) "employer" means any department, implementing agency or contractor that hires workers to work in elementary occupations on an EPWP;
- c) "worker" means any person working in an elementary occupation on an EPWP;
- d) "elementary occupation" means any occupation involving unskilled or semi-skilled work;
- e) "management" means any person employed by a department or implementing agency to administer or execute an EPWP;
- f) "task" means a fixed quantity of work;
- g) "task-based work" means work in which a worker is paid a fixed rate for performing a task;
- mask-rated worker means a worker paid on the basis of the number of tasks completed;
- "time-rated worker" means a worker paid on the basis of the length of time worked.

2. Terms of Work

- 2.1. Workers on an EPWP are employed on a temporary basis.
- A worker may NOT be employed for longer than 24 months in any five-year cycle on an EPWP.
- Employment on an EPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

3. Normal Hours of Work

- An employer may not set tasks or hours of work that require a 9.2. worker to work–
- a) more than forty hours in any week
- on more than five days in any week; and
- ii. for more than eight hours on any day.
- An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
- 3.3. A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

4. Meal Breaks

- A worker may not work for more than five hours without taking 9.8.
 a meal break of at least thirty minutes duration.
- 4.2. An employer and worker may agree on longer meal breaks.
- 4.3. A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.
- 4.4. A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.

5. Special Conditions for Security Guards

- 5.1. A security guard may work up to 55 hours per week and up to eleven hours per day.
- 5.2. A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

6. Daily Rest Period

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

7. Weekly Rest Period

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

8. Work on Sundays and Public Holidays

- A worker may only work on a Sunday or public holiday to perform emergency or security work.
- Work on Sundays is paid at the ordinary rate of pay
- 8.3. A task-rated worker who works on a public holiday must be paid –
- the worker's daily task rate, if the worker works for less than four hours:
- double the worker's daily task rate, if the worker works for more than four hours.
- 8.4. A time-rated worker who works on a public holiday must be paid –
- a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;
- double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday.

9. Sick Leave

- Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
 - A worker who is unable to work on account of illness or injury is entitled to claim one day's paid sick leave for every full month that the worker has worked in terms of a contract.
- 9.3. A worker may accumulate a maximum of twelve days' sick leave in a year.
- Accumulated sick-leave may not be transferred from one contract to another contract.
- An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.
- An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.
- An employer must pay a worker sick pay on the worker's usual payday.
 - Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is absent from work for more than two consecutive days; or
- absent from work on more than two occasions in any eightweek period.
- 9.9. A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.
- 9.10. A worker is not entitled to paid sick-leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

Employer	Employee

10. Maternity Leave

- 10.1. A worker may take up to four consecutive months' unpaid maternity leave.
- A worker is not entitled to any payment or employment-related 10.2. benefits during maternity leave.
- A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work. 14.3.
- A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife or qualified nurse certifies that she is fit to do so.
- 10.5. A worker may begin maternity leave
 - four weeks before the expected date of birth; or
 - b) on an earlier date -
 - if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - if agreed to between employer and worker; or
- on a later date, if a medical practitioner, midwife or certified III nurse has certified that the worker is able to continue to work without endangering her health.
- A worker who has a miscarriage during the third trimester of 10.6. pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.
- 10.7. A worker who returns to work after maternity leave, has the right to start a new cycle of twenty-four months employment, unless the EPWP on which she was employed has ended.

11. Family responsibility leave

- Workers, who work for at least four days per week, are 11.1. entitled to three days paid family responsibility leave each year in the following circumstances
 - when the employee's child is born;
 - when the employee's child is sick; b)
 - in the event of a death of -C)
 - the employee's spouse or life partner;
 - the employee's parent, adoptive parent, grandparent, child, ii. adopted child, grandchild or sibling.

12. Statement of Conditions

- An employer must give a worker a statement containing the 12 1 following details at the start of employment
 - a) the employer's name and address and the name of the EDMb.
 - the tasks or job that the worker is to perform; and b)
 - the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
 - the worker's rate of pay and how this is to be calculated; the training that the worker will receive during the EPWP.
- 12 2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement
- 12.3. An employer must supply each worker with a copy of these conditions of employment.

13. Keeping Records

- 13.1. Every employer must keep a written record of at least the following
 - the worker's name and position;
 - in the case of a task-rated worker, the number of tasks completed by the worker;
 - in the case of a time-rated worker, the time worked by the worker
 - payments made to each worker.
 - 13.2. The employer must keep this record for a period of at least three years after the completion of the EPWP.

14. Payment

- 14.1. An employer must pay all wages at least monthly in cash or by cheque or into a bank account.
- A task-rated worker will only be paid for tasks that have been completed.
- An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.
- A time-rated worker will be paid at the end of each month. 14 4
- Payment must be made in cash, by cheque or by direct 14.5. deposit into a bank account designated by the worker.
- Payment in cash or by cheque must take place -14.6
 - at the workplace or at a place agreed to by the worker; a)
 - b) during the worker's working hours or within fifteen minutes of the start or finish of work;
 - C) in a sealed envelope which becomes the property of the worker.
- An employer must give a worker the following information in writing
 - the period for which payment is made;
 - the numbers of tasks completed or hours worked; b)
 - C)
- the worker's earnings; any money deducted from the payment; d)
- the actual amount paid to the worker. e)
- If the worker is paid in cash or by cheque, this information 14.8. must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it
 If a worker's employment is terminated, the employer must
- 14.9. pay all monies owing to that worker within one month of the termination of employment.

15. Deductions

- An employer may not deduct money from a worker's payment 15.1. unless the deduction is required in terms of a law.
- An employer must deduct and pay to the SA Revenue 15.2 Services any income tax that the worker is required to pay.
- An employer who deducts money from a worker's pay for 15.3 payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order or arbitration award concerned.
- An employer may not require or allow a worker to -15 4
 - repay any payment except an overpayment previously made by the employer by mistake;
 - state that the worker received a greater amount of money than the employer actually paid to the worker; or
 - pay the employer or any other person for having been employed.

16. Health and Safety

- Employers must take all reasonable steps to ensure that the 16.1. working environment is healthy and safe.
- 16.2 A worker must
 - work in a way that does not endanger his/her health and a) safety or that of any other person;
 - obey any health and safety instruction; b)
 - obey all health and safety rules of the EPWP;
 - use any personal protective equipment or clothing issued by d) the employer;
 - e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.

17. Compensation for Injuries and Diseases

ee

- 17.1. It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on an EPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.
- A worker must report any work-related injury or occupational disease to their employer or manager.
- 17.3. The employer must report the accident or disease to the Compensation Commissioner.
- 17.4. An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

18. Termination

- 18.1. The employer may terminate the employment of a worker for good cause after following a fair procedure.
- 18.2. A worker will not receive severance pay on termination.
- 18.3. A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.
- 18.4. A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
- 18.5. A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

19. Certificate of Service

- On termination of employment, a worker is entitled to a certificate stating –
 - a) the worker's full name;
 - b) the name and address of the employer;
 - c) the EPWP on which the worker worked;
 - d) the work performed by the worker;
 - e) any training received by the worker as part of the EPWP;
 - f) the period for which the worker worked on the EPWP;
 - any other information agreed on by the employer and worker. Either party can terminate this agreement with four weeks written notice. In the case where an employee is illiterate notice may be given by that employee verbally.

Employer

mployee

<u>EPWP DATA COLLECTION TOOL TEMPLATE</u> (PRO FORMAS OF MICROSOFT EXCEL SPREADSHEETS)

	EPWP REGISTRATION FORM	
Field requested	Description if needed	Please complete the sections in white
D ('I ID	Project Details	
Profile ID	Generated by the system	
Project Name	The name of the project	
Project Reference Number	Contract number	
Project description	Full description of what is happening in the project (as per the appointment letter) and the community	
	benefiting from the project Duration	
Project Start Date	Planned Start date of the particular contract	
Project End Date	Planned End date of the particular contract	
Estimated Budget	Overall Contract budget (excluding professional fees) for Current Financial Year	
	Project Location	
Province	In which province is the project implemented?	KZN
District Municipality	Under which District Municipality does this project falls?	- 1-1-1
Local Municipality	Under which Local Municipality does this project falls?	
Latitude (in decimal format)	Is generated by the system	
Longitude (in decimal format)	Is generated by the system	
	Project Location per site	
Locality name	Where exactly is the project implemented? (Ward name)	
Subplace	Town / Village	
Ward	The project site is located in which ward?	
Government facility	Landmark near the project (Post office/school/clinic/library)	
Spatial Data Type	Geopoint (structure)/ Line (road)/ Polygon(area)	
Site physical address	Physical address of the site office	
	Public Body Details	
Public body sphere	In which sphere is the project implemented? (National, Provincial or Municipal)	Provincial
Reporting public body that is the project owner (and will report on the project)	Which Institution or Department that owns / approved this project (Education, Health, City of Tshwane Metro etc.)	KZN Department of Transport
Department in the Public body that is responsible for the project	Which department /unit is responsible for this project? (e.g. Roads & storm water, Education, Community safety etc.)	KZN Department of Transport
Implementing public body type	In which sphere is this project implemented? (Metro, Distr, Mun, National or Provincial Dept.)	Provincial
Public body that will implement the project	Which institution that implements the project?	KZN Department of Transport
	Project Implementation	
s this the project on the municipal IDP	Yes / No	N/A
DP reference number allocated to the project	The number reflected in your Municipal IDP document	N/A
	EPWP Details	
EPWP Sector	The project is implemented in which sector? (Infrastructure, Environment & culture, Non-state or Social)	Infrastructure
EPWP Programme	The project is implemented under which programme?	
EPWP Sub Programme	The project is implemented under which sub- programme?	

	EPWP BUSINESS FOR	М
Field requested	Description if needed	Please complete the sections in white
	Project Details	
Profile ID	Generated by the system	
Project Name	The name of the project	
Project Reference Number	Contract number	
Project description	Full description of what is happening in the project (as per the appointment letter) and the community benefiting from the project	
	Duration	
Project Start Date		
Project End Date		
Estimated Budget	Project Budget	
	Project Location	
Province		KZN
District Municipality	Under which District Municipality does this projects falls	
Local Municipality Latitude (in	Under which Local Municipality does this projects falls	
decimal format)	GPS coordinates	
Longitude (in decimal format)		
Tomaty	Public Body Details	
Public body sphere	Such as Municipal or Provincial	Provincial
Reporting public body that is the project owner (and will report on the project)	Which Department approved the project in (education, Health etc.)	KZN Department of Transport
Department / Unit in the Public body that is responsible for the project	Which Department budgeted for the project e.g. Education, Health Directorate	KZN Department of Transport
Implementing public body type	Example(Local Municipality, Distr. Mun or Provincial Dept.	Provincial
Public body that will implement the project	Infrastructure, Environment or Social	KZN Department of Transport
Is this project on the Municipal IDP	Municipal projects	N/A
IDP reference number allocated to the project		N/A

	EPWP Details	
	The project is implemented in which sector?	
EPWP Sector	(Infrastructure, Environment & culture, Non-state or Social)	Infrastructure
EPWP programme	The project is implemented under which programme?	
EPWP Sub Programme	The project is implemented under which sub- programme?	
	Budget Amount-(Allocations for the p	project duration)
Funding Body	Which Dept. is funding the project	KZN Department of Transport
Funding Year	Financial year/s for the project	
Total Budget Amount	(Exclude Professional Fees)	
Incentive Grant(e.g. landcare / EPWP grant)	Grant funding received	
Total wages paid for the duration of the projects	What amount will be spent on wages during the duration of the project	
Wage Rate	Daily Wage rate to be paid during productive work	
Stipend Rate	Daily wage rate to be paid during training	
UIF	The amount being paid to UIF (if applicable)	
COIDA	The amount being paid to COIDA(if applicable)	
Training	What amount will be spent on training	
Administration	The Administration costs	
Equipment and materials	Budget for Materials and Equipment	
Other	If other where chosen describe the other Such as Professional fees)	
Describe other		
	Project Outputs and Trai	ning
Planned Primary Output	eg walkways, gabions, kerb * channel, km of road constructed	
Description of Planned Primary Output	Describe the project output (end product and not the milestone) (e.g. kms of tar road constructed) Start with the unit of measure such as number of, kms, ha, sqms etc	
Unit of measure of primary output	Eg. m, m², m³, km, no, ha etc	
Planned primary output quantity	Specify the quanity of output planned	
Number of persons to be trained	How many persons are targeted for on job training	

	Contact person	
Title		
Initials		
First Name		
Surname		
Email		
Tel (Office)		
Fax Number		
Cell Number		
Physical		
Address 1		
Physical		
Address 2	Person responsible for the Project in the Public Body	
Physical	(Project Manager)	
Address 3		
Physical		
Address 4		
Postal		
Address 1		
Postal		
Address 2		
Postal		
Address 3		
Postal		
Address 4		
Position of		
person		

				Participant's	perso	nal det	ails					Grants		erience/ eracy	Locat Deta		Nation- ality	Но	usehold [Details	Quality Check				
No	First Name as per ID	Initials	Surname	ID number	Disability (Y/N)	Education Level	Start Date	End Date	Language ID	Address	Cell Number	Government Grant (Y/N) and Type	Other Language 1	Other Language 2	District Municipality	Local Municipality	Nationality (RSA/ Non- RSA)	Number of people in Household	Number of Dependants in Household	Number of Children attending	Picture Clear	Text clear	Certification within 3 months of employment	Clear certification Stamp	Commissioner details clear
																									-

						Participa	ant Training Da	ata					
Course ID	Course Name	Code	Training category (Accredited / non- accredited)	Type of training course (Unit standard, Trade Titles, Short courses, Public body specific)	Start	End (for the entire training duration)	Number of Trainees	Number of Days	Cost (for the entire training course)	Status of training (Not started, In progress, Completed)	Training Provider Name	Training Provider Contact Number	Training Provider Address
													
													

EPWP Monthly Progress Form											
Field requested	Description if needed	Please complete the sections in white									
	Project Details										
Profile ID	full descripton of what is happening in the project (as per the appointment letter) and the community benefiting from the project										
Project Name	The name of the project										
Project Reference Number	Contract number										
Project description	Full descripton of what is happening in the project (as per the appointment letter) and the community benefiting from the project										
	Month										
Reporting Month		April									
	Budget Expenditure										
Cumulative Expenditure Amount	What is the Overall amount spend on this project?										
Current Expenditure Amount	What is the amount spend including all grants for this month?										
Wages	How much paid on wages for this month only?										
UIF	How much paid on UIF for this month only?										
COIDA	How much paid on COIDA for this month only?										
Stipends for training	Amount paid to participants whilst on training (this month only)										
Amount spent on service providers for training	How much paid to service providers for training for this month only?										
Training	Total Cost of training for this month? (number captured on ERS)										
Administration	How much paid on administration for this month only?										
Equipment and materials	How much paid on equipment and materials for this month only?										
Other	How much paid on other?										
Describe other	Be specific e.g. Consulting fees, Transport etc.										
Project output description	Describe the project output (end product and not the milestone) (e.g. kms of tar road constructed) Start with the unit of measure such as number of, kms, ha, sqms etc										
Unit of measure of primary output	Eg. m, m², m³, km, no, ha etc										
Cumulative primary output achieved	Since the onset of the project										
Quantity Achieved	enter numeric output for this month only										
Percentage achieved	How much work done / achieved in percentages?										
	EPWP Branding										
Branding compliant	Yes / No										
Date that the branding was provided	When was the project branded?										
Has a photo of project branding been provided?	Yes / No										
First name of Official Who Branded Project	Official Name										
Surname of Official Who Branded Project	Official Surname										
Phone number of official who erected branding for the project	Official contact number										
Give the public body reference and name, and organisational details of the person that provided branding.	Public body details (reference & name)										

Department of Transport

First Name	Initials	Surname	ID number	Date Of Birth	Wage Rate	Total Paid Days	Amount Paid	Work Days	Training Days Paid	Training Days Non Paid	Total Training Days	Training Course ID	Project Profile ID	Month	Year	Beneficiary Code



The Attendance Register for on-site Workers

Reporting month:									Mob	ile No	o:		
Project Name:						_			Con	tract	no: _		_
Surname:													
First Name:													
IDENTITY NUMBER:]	

Day	Date	Time In	Signature	Time Out	Signature	Report On Any Formal Training Provided In The Reporting Month
WEEK 1						
MONDAY						
TUESDAY						
WEDNESDAY						
THURSDAY						
FRIDAY						
WEEK 2						
MONDAY	+					
TUESDAY						
WEDNESDAY	+					
THURSDAY						
FRIDAY						
TRIDAT						
WEEK 3						
MONDAY						
TUESDAY	-					
WEDNESDAY	-					
THURSDAY	-					
FRIDAY	+	+		+		+
FRIDAT						
MEET A						
WEEK 4	+					
MONDAY						
TUESDAY						
WEDNESDAY	+					
THURSDAY	+					
FRIDAY						
WEEK E						
WEEK 5						
MONDAY	1					
TUESDAY						
WEDNESDAY	-			1		
THURSDAY				-		
FRIDAY						
	1			-		
Tatal D						
Total Days work	ea					

C3.3 PARTICULAR SPECIFICATIONS

PART G: SMALL CONTRACTOR DEVELOPMENT

PART G: SMALL CONTRACTOR DEVELOPMENT

G1. SCOPE

This part provides the procedures that relate to the Contractor implementing the Employer's policies and initiatives, enabling the Employer to realise its social and development objectives through the participation of Targeted Enterprises and Labour in the construction of the Works. The approach adopted enables the delivery of a wide range of social and economic deliverables, including the employment of local resources, employment opportunities for labour enhanced works, business opportunities, enterprise support and development programmes, and skills development.

The participation of Targeted Enterprises and Labour, measured in monetary terms, is specified as a contract participation goal by the Employer, for the Contractor to achieve.

G2. DEFINITIONS

Unless inconsistent with the context, in these specifications the following terms, words or expressions shall have the meanings hereby assigned to them:

- G2.1 "Black People" has the meaning assigned to it in section 1 of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003), and the Broad-Based Black Economic Empowerment Amended Act, 2013 (Act No 46 of 2013).
- G2.2 "Contract Participation" means a process whereby the Employer sets a target to achieve its social and development objectives through the participation of Targeted Enterprises and Labour in the construction of the Works.
- G2.3 "Contract Participation Goal (CPG)" means the value of goods, services and works for which the Contractor contracts Targeted Enterprises and Labour exclusive of any value added tax which the law requires the Employer to pay to the Contractor, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax).
- G2.4 "EME" means an exempted micro enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).
- G2.5 "Military Veteran" has the meaning assigned to it in section 1 of the Military Veterans Act, 2011 (Act No 18 of 2011).
- G2.6 "people with disabilities" has the meaning assigned to it in section 1 of the Employment Equity Act, 1998 (Act No 55 of 1998).
- G2.7 "Project Management Team (PMT)" means a team established at the commencement of the contract, comprising a representative from each of the Employer, the Employer's Agent and the Contractor, that will be responsible for various functions related to the implementation of the Contract Participation process.
- G2.8 "QSE" means a qualifying small enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No 53 of 2003).
- G2.9 "Target Area" means the geographic area stated in the Contract Data.
- G2.10 "Targeted Enterprise" means an entity to which the Contractor subcontracts a percentage of the contract value as a condition of contract and which is:
 - (i) an EME or QSE which is at least 51% owned by black people;
 - (ii) an EME or QSE which is at least 51% owned by black people who are youth;

- (iii) an EME or QSE which is at least 51% owned by black people who are women;
- (iv) an EME or QSE which is at least 51% owned by black people with disabilities; or
- (v) an EME or QSE which is at least 51% owned by black people who are military veterans.
- G2.11 "Targeted Labour" means individuals, employed by the Contractor and subcontractors in the performance of the contract, who permanently reside in the target area or who are recognised as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area, and excludes any labour employed by suppliers and manufacturers.
- G2.12 "Youth" means persons between the ages of 18 and 35.

G3. CONTRACT PARTICIPATION

G3.1 Objective

In order for the Employer to realise its social and development objectives, the Contractor is required to provide business and labour opportunities through the participation of Targeted Enterprises and Labour in the construction of the Works. The participation of Targeted Enterprises and Labour, measured in monetary terms, is specified by the Employer as a contract participation goal, for the Contractor to achieve.

G3.2 Contract Participation process

The Contractor shall engage Targeted Enterprises and Labour in the performance of the contract to the extent that the total monetary value of such engagements exclusive of any value added tax, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax), is not less than the Contract Participation Goal specified in the contract.

G3.2.1 Contract Participation plan

The Contractor shall submit to the Employer's Agent details of his plan to achieve the Contract Participation Goal with his initial programme in terms of which he will carry out the Works. The Contract Participation plan shall be submitted with all subsequent adjusted programmes. The tender process for the procurement of Targeted Enterprise subcontractors shall be indicated on the programme.

The Contract Participation plan shall indicate the expected delivery dates of goods provided by Targeted Enterprises, and the commencement and completion dates of work and services to be performed by all the Targeted Enterprises and Labour engaged on the contract for the purpose of securing credits towards the Contract Participation Goal.

The information contained in the Contract Participation plan facilitates, in the first instance, the monitoring by the Employer's Agent of the performance of the Contractor in terms of his Contract Participation Goal obligations and, in the second instance, the making of any adjustments by the Contractor to compensate for quantitative underruns, the elimination of items contracted to Targeted Enterprises or Labour, or any other reason beyond the Contractor's control which may be acceptable to the Employer

G3.2.2 Targeted Enterprises

The Contractor shall engage Targeted Enterprises comprising subcontractors and suppliers directly or indirectly in the performance of the contract. Prior to such Targeted Enterprises being engaged, the Contractor shall submit to the Employer's Agent documentation in a form approved by the Employer's Agent, to confirm that the enterprise satisfies the eligibility criteria for recognition as a targeted enterprise.

The Contractor shall enter into written contractual agreements with all the Targeted Enterprises, in a form approved by the Employer's Agent. Copies of such agreements and the written acceptance thereof shall be submitted to the Employer's Agent.

In the case of Targeted Enterprise subcontractors, only those subcontractors procured through a tender process as specified in clause G6 Tender Process for Targeted Enterprise Subcontractor Procurement, shall qualify to have their contribution count towards the Contract Participation Goal.

The Contractor may not subcontract more than 25% of the Contract Price to Targeted Enterprises whose B-BBEE status level of contributor is lower than the Contractor's.

G3.2.3 Targeted Labour

The Contractor shall engage Targeted Labour directly or indirectly in the performance of the contract. It is a requirement of the contract that such Targeted Labour be engaged by means of a written contract, in a form approved by the Employer's Agent.

The requirements for the engagement of such Targeted Labour is contained in Part F: Expanded Public Works Programme.

G3.3 Contract Participation Goal

The Contract Participation Goal comprises two targets, namely subcontracting of the Works to Targeted Enterprises, and employment of Targeted Labour. The Contract Participation Goal targets are stated as a percentage unit of measure in the Contract Data, for the Contractor to achieve to the extent that the total monetary value of such subcontracting and employment engagements exclusive of any value added tax, expressed as a percentage of the Contract Price (adjusted to exclude penalties and value added tax), are each not less than the respective Contract Participation Goal target stated in the contract.

G3.3.1 Monthly submission of supporting documentation

The Contractor shall prepare and submit on a monthly basis to the Employer's Agent in a form approved by the Employer's Agent, the following:

- (i) a brief report which describes the commercially useful functions performed by the Targeted Enterprises and Labour in the performance of the contract, both during the interim period and on a cumulative basis;
- (ii) a schedule reflecting the estimated total value of the contracts, the cumulative value of the contracts, and the value of goods provided, and work and services performed over the period for which payment is claimed with respect to each and every Targeted Enterprise; and
- (iii) a schedule which lists the names, identity numbers, gender, trade/occupation, period of employment, employment number and the like, as directed by the Employer's Agent, together with the respective wage rates payable in respect of Targeted Labour, including the monetary value of wages paid both on a cumulative basis and over the period for which payment is claimed.

Should random inspections conducted by the Employer's Agent on Targeted Enterprise and Labour activities indicate that such Targeted Enterprises and Labour are not performing in accordance with the requirements of the contract, the Contractor shall provide, in addition to the monthly reporting requirements, separate weekly resource returns and any other relevant information with respect to such Targeted Enterprises and Labour in a form approved by the Employer's Agent.

G3.3.2 Contract Participation Goal credits

G3.3.2.1 Granting of credits

The Employer's Agent shall certify the value of the credits counted towards the Contract Participation Goal whenever a claim for payment is issued to the Employer, and shall notify the Contractor of the amount. The value of the credits counted shall not include any expenditure on Goods and Labour which forms part of the monetary value of the contributions made by Targeted Enterprise subcontractors.

Credits towards the Contract Participation Goal shall be granted by converting the value of the following (including contract price adjustment and rise/fall on special materials, but excluding value added tax) to a percentage of the Contract Price (adjusted to exclude penalties and value added tax), as relevant:

- (i) subcontracting CPG:
 - the total monetary value of the contributions made by Targeted Enterprise subcontractors in fulfilling contractual obligations; and
 - expenditure on Goods required for the contract, which are obtained from Targeted Enterprise suppliers.
- (ii) employment CPG:
 - the total monetary value of wages paid to Targeted Labour.

G3.3.2.2 Denial of credits

No credits shall be granted should the Contractor make a direct payment to a supplier or manufacturer on behalf of a Targeted Enterprise when such payment is recovered by making deductions from payments to the Targeted Enterprise in connection with the contract; or should the Contractor fail to enter into a written agreement with the relevant Targeted Enterprise.

In addition, credits claimed towards the Contract Participation Goal shall be denied where written contractual agreements contain any of the following:

- (i) a right to set off in favour of the employing Contractor not provided for by law;
- (ii) authoritarian rights given to the employing Contractor or his agent, with no recourse to independent adjudication in the event of a dispute arising;
- (iii) payment procedures based on a pay-when-paid system;
- (iv) a dispute resolution process which does not include inexpensive alternative dispute resolution procedures, such as mediation or adjudication, but which only makes use of formal proceedings such as arbitration or litigation; or
- (v) conditions which are more onerous than those which exist in the main contract.

Credits shall be denied should Targeted Enterprises not adhere to statutory labour practices or fail to perform commercially useful functions.

G3.3.3 Contract Participation Goal evaluation

The Contractor shall, upon completion of each individual Targeted Enterprise's contract, issue a completion certificate and certify the amount paid to such Targeted Enterprises. The Contractor shall submit the certificates, counter-certified by the relevant Targeted Enterprises, to the Employer's Agent for record-keeping purposes. The Contractor shall furnish justification to the Employer's Agent whenever it is not possible to obtain such counter-certification.

The Contractor shall, upon termination of the services of the individuals classed as Targeted Labour engaged in activities relating to the performance of the contract, certify the amount paid to such individuals and submit the certificate, counter-certified by the relevant individual, to the Employer's Agent for record-keeping purposes. The Contractor shall furnish justification to the Employer's Agent whenever it is not possible to obtain such counter-certification.

On completion of the contract, the Employer's Agent shall determine the final credits to be granted towards the Contract Participation Goal targets, by converting the value of credits (including contract price adjustment and rise/fall on special materials, but excluding value added tax) to a percentage of the Contract Price (adjusted to exclude penalties and value added tax)

G3.3.4 Sanctions

In the event that the Contractor fails to substantiate that any failure to achieve any of the Contract Participation Goal targets, is due to quantitative underruns, the elimination of items contracted to Targeted Enterprises, or any other reason beyond the Contractor's control which may be acceptable to the Employer, the Contractor shall be liable for a financial penalty as prescribed in clause SCC 4.1.1 of section C1.2.1.2 Special Conditions of Contract. The subcontracting financial penalty shall be calculated as follows:

$$P = 0.05 x [(D - D_0)/100] x C_A$$

where

- D is the Contract Participation Goal percentage
- D_o is the Contract Participation Goal percentage which the Employer's Agent certifies, based on the credits passed, as being achieved upon completion of the contract
- C_A contract amount which is the Contract Price (adjusted to exclude penalties and value added tax)
- P is the monetary value of penalty payable

The evaluation of the Contractor's achievement of the Contract Participation Goal for the subcontracting of the Works to Targeted Enterprises, shall be undertaken monthly by the Employer's Agent based on the accumulative achievements in comparison to the programmed utilisation of Targeted Enterprises, as a means of monitoring the Contractor's performance in achieving the Contract Participation Goal.

Failure by the Contractor to achieve the Contract Participation Goal target by the time of Practical Completion, shall result in the financial penalty being applied as prescribed in this clause. The Employer's Agent shall make a final determination of the Contractor's achievement of the Contract Participation Goas based on the value of the Final Payment Certificate.

G4. DUTIES OF THE EMPLOYER AND ENGINEER

The Employer, Engineer, and the Contractor, or their representatives, are parties to the Project Liaison Committee and are co-responsible for successful project Stakeholder and Community liaison. The Employer and the Engineer also play a supporting role in the successful implementation of the Employer's Targeted Labour and Targeted Enterprise utilisation and development goals.

To implement the Employer's Targeted Labour and Targeted Enterprise goals, the Employer and the Engineer shall provide support to the Contractor by executing the following duties:

- (i) Make recommendations to the Contractor in the identification and structuring of the work packages to be subcontracted to Targeted Enterprises and agree to the scope and extent of the work packages.
- (ii) Verify that the Targeted Enterprise Database(s), have been updated prior to the letting of every new set of subcontracts.

- (iii) Endorse all Databases, and approve tender procedures, tender documents, tender submission requirements and adjudication processes for the subcontracting of Targeted Enterprises.
- (iv) Review all tender adjudication reports and monitor that the criteria and procedures applied by the Contractor to subcontract work to Targeted Enterprises are executed in a fair and transparent manner, and are in accordance with the Employer's standards.
- (v) Endorse subcontract agreements and ensure that the conditions of subcontracting with Targeted Enterprises are fair and transparent and within the prescripts of the Contract requirements.
- (vi) Monitor the management of Targeted Enterprise subcontracts and ensure that conditions such as the application of penalties and the termination of contracts, are applied in a fair and transparent manner and within the prescripts of the agreement.
- (vii) Verify that the Labour Database(s) from which Targeted Labour will be employed is updated prior to every new Labour intake.
- (viii) Monitor that the criteria and procedures applied by the Contractor to employ Targeted Labour are executed in a fair and transparent manner, and is within the Contract requirements.
- (ix) Monitor that the conditions of employment of Targeted Labour are applied in a fair and transparent manner and within the prescripts of the current and relevant Labour legislation.
- (x) Make recommendations to the Contractor in the identification of the training requirements of Targeted Enterprises and Targeted Labour and approve the proposed training programmes.
- (xi) Monitor that training programmes and support programmes, which the Contractor committed to, are implemented and executed as intended.

G5. SPECIFIC WORK TO BE CARRIED OUT BY TARGETED ENTERPRISE SUBCONTRACTORS

G5.1 Subcontract scope of work

It is a requirement of the contract that only those Targeted Enterprise subcontractors procured through a tender process by the Contractor, shall qualify to have their contribution count towards the Contract Participation Goal.

For this particular contract, the following listed work has been identified in terms of this Particular Specification, Part G, as suitable for execution by Targeted Enterprise subcontractors in order to assist the Contractor in achieving the Contract Participation Goal:

- (i) Clearing and grubbing.
- (ii) Construction and clearing of drains.
- (iii) Installation of prefabricated culverts including inlet and outlet structures.
- (iv) Concrete channelling and concrete linings for open drains.
- (v) Pitching, stonework and protection against erosion.
- (vi) Construction of gabions.
- (vii) Construction of minor and major structures
- (viii) Erection of guardrails.
- (ix) Erection of road signs.

- (x) Landscaping.
- (xi) Finishing the road and road reserve.
- (xii) Other work identified by the Employer to be executed in the community area.

The work to be carried out by Targeted Enterprise subcontractors is not limited to the work listed above, and the Contractor may need to engage Targeted Enterprises and Labour on other aspects of the Works in order to achieve the Contract Participation Goal.

G5.2 Subcontract work packages

The work activities shall be grouped into varying sizes of work packages according to the CIDB contractor grading designation and class of construction works. The typical scope of work may include the following class of construction works and specialist works:

- (i) Class of construction works Civil Engineering (CE); and
- (ii) Specialist Works:
 - Asphalt works (SB);
 - Demolition and blasting (SE);
 - Piling (SJ);
 - Road marking and signage (SK); and
 - Structural steelwork fabrication and erection (SL).

For this contract the minimum number of prescribed work packages for execution by Targeted Enterprise subcontractors is indicated in table F1/1 according to the CIDB contractor grading designation and the scope of work according to the Chapters of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

Provision is made for each of the work packages to include Chapter 1.3 Contractor's Establishment on Site and General Obligations to cover the costs of the Targeted Enterprise subcontractors' own establishment and general obligations.

		TARGETED ENTERPRISE SUBCONTRACTOR CIDB CONTRACTOR GRADING DESIGNATION									
		1	2	3	4	5	6				
CHAPTER	DESCRIPTION	Max: R0,5 m	Max: R1 m	Max: R3 m	Max: R6 m	Max: R10 m	Max: R20 m				
1.7,4.1,4.3 & 9.1	LOADING & HAULING, BORROW MATERIAL EXISTING ROAD MATERIAL, ASPHALT						X (1)				
3.1	DRAINS	X(5)	X(1)								
3.2	CULVERTS		X (1)								
3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS		X(1)		X(1)	X (1)					
11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION	X(1)									
11.2	GABIONS	X (1)									
11.3	GUIDE BLOCKS AND KILOMETER MARKERS	X(1)									
11.4	ROAD RESTRAINT SYSTEM			X (1)							
11.6	ROAD SIGNS	X(1)									
11.7	ROAD MARKINGS AND ROAD STUDS			X(1)							
	MINIMUM TOTAL NUMBER OF TARGETED ENTERPRISE SUBCONTRACTORS PRESCRIBED FOR EACH CIDB CONTRACTOR GRADING DESIGNATION	9	3	2	1 only	1 only	1 only				

NOTE:

All work packages must include Chapter 1.3

X(1) denotes "one" prescribed subcontract work package according to the respective CIDB contractor grading designation and the scope of work according to the Chapter of the Standard Specifications for Road and Bridge Works for South African Road Authorities (COTO), Draft Standard (DS), October 2020.

For subcontractors with a higher CIDB contractor grading designation, it may be possible for the work package to comprise more than one chapter which is shown as "X" in the above table. The minimum total number of targeted enterprise subcontractors prescribed for each CIDB contractor grading designation is listed in the above table.

1.5: Traffic Accommodation

Traffic accommodation is allocated for all CPG contracts under this document; The CPG contracts will provide flagmen which is applicable, Hence the main contractor is responsible under to provide major traffic accommodation.

G5.3 Subcontract bill of quantities

The items of work identified for execution by Targeted Enterprise subcontractors is shown in the bill of quantities at the end of Part G: Small Contractor Development. The quantities of work shown for each item of work, is the anticipated work to be subcontracted, and the Contractor is not required to tender rates and prices for these items of work.

Payment of the works executed by Targeted Enterprise subcontractors will be made under the provisional sum allowed for in clause G10 Measurement and Payment and included in Schedule G: Small Contractor Development in Section C2.2 Bill of Quantities.

G6. TENDER PROCESS FOR TARGETED ENTERPRISE SUBCONTRACTOR PROCUREMENT

G6.1 Subcontract scope of work

The Contractor shall refer to Table G1/1 for the work packages identified to be subcontracted, the bill of quantities contained in these Particular Specifications, and to any other construction activities required to execute the Works in terms of the contract, to determine how he intends to unbundle or package specific subcontracts for execution by Targeted Enterprise subcontractors, and shall present his proposal to the Employer and Employer's Agent for approval.

G6.2 Compilation of subcontract tenders

The Contractor shall be responsible for compiling the tender documents that will enable him to engage the Targeted Enterprise subcontractors for the various work packages, according to the contractor grading designation and class of construction works or specialist works. The Contractor shall compile each subcontract tender document in such a manner that it shall facilitate the achievement of all objectives and principles pertaining to the development of the Targeted Enterprise subcontractors.

The tender documentation shall comply with the Employer's standards, including its standard conditions of tender. The following returnable schedules shall form part of the tender document for submission by tenderers:

- certificate of registration of the tenderer in the required CIDB contractor grading designation, confirming the tenderer's registration Status as "Active" at the closing date of tender submission;
- (ii) tax compliance status report;
- (iii) B-BBEE verification certificate or sworn affidavit;
- (iv) proof of registration on the Central Supplier Database; and
- (v) compliance with the COID Act.

The tender documents shall also contain the proposed subcontract agreement in accordance with clause G8.1.

The draft tender documents shall be subject to approval by the Employer and Employer's Agent. The Contractor may then proceed with the preparation of tender documents for the work packages.

G6.3 Tender process

The Contractor shall be responsible for advertising the tenders for the work packages, and inviting tenders from Targeted Enterprise subcontractors in consultation with the Employer and Employer's Agent and the local PLC.

The Employer shall identify the number of work packages which are to be executed by Targeted Enterprise subcontractors from specific designated groups.

The Contractor shall conduct a compulsory briefing session for tenderers, attended by the Employer and Employer's Agent, to explain the Works required and the tender process to the Targeted Enterprise subcontractors.

Tenders for the subcontracted works must close at a stipulated time and date. Tenders shall be placed in a suitable formal Tender Box, located at the Contractor's site office. The tender opening shall be conducted by the Project Management Team.

G6.4 Tender evaluation

The Project Management Team shall evaluate the tenders according to the Employer's standards. The Contractor shall prepare the tender adjudication report for each subcontract, and submit it to the Project Management Team for review prior to award of each subcontract.

G6.5 Allocation of subcontract work packages

The Project Management Team shall identify responsive tenders received for the various work packages from Targeted Enterprises in the following designated groups:

- (i) an EME or QSE which is at least 51% owned by black people;
- (ii) an EME or QSE which is at least 51% owned by black people who are youth;
- (iii) an EME or QSE which is at least 51% owned by black people who are women;
- (iv) an EME or QSE which is at least 51% owned by black people with disabilities; or
- (v) an EME or QSE which is at least 51% owned by black people who are military veterans.

The selection of subcontract work packages shall then be made, in consultation with the Employer in accordance with the provisions of clause 4.4.4 of the General Conditions of Contract 2015, in order to comply with the Employer's targeted procurement objectives.

G6.6 Award of subcontract work packages

Following the selection of the Targeted Enterprise subcontractors for the various work packages in consultation with the Employer in accordance with clause 4.4.4 of the General Conditions of Contract 2015, the Employer's Agent shall provide written confirmation of the Targeted Enterprise subcontractor selected for each work package, to the Contractor. The Contractor shall award each work package to the respective Targeted Enterprise subcontractor.

G7. GENERAL RESPONSIBILITIES OF THE CONTRACTOR TOWARDS TARGETED ENTERPRISES

G7.1 Obligations

The Contractor shall ensure that he complies with the following obligations:

- (i) institute a quality assurance system;
- (ii) provide adequate training, coaching, guidance, mentoring and assistance to Targeted Enterprises;
- (iii) provide financial support and other assistance to ensure that Targeted Enterprises are able to meet their obligations and commitments with respect to their subcontracts, including acquisition of labour, construction equipment and materials;
- (iv) ensure that the contract participation goals and objectives are achieved; and
- (v) make provision for Targeted Enterprises to be established within the Contractor's own camp facilities, and be responsible for the provision of site offices, common camp facilities,

medical, security, safety, electricity, water, sewage services, waste disposal and all other camp services.

G7.2 Subcontracts

In the subcontracts arranged by the Contractor involving Targeted Enterprises, the following shall apply:

- (i) the appointment of Targeted Enterprises by the Contractor shall be made in accordance with the provisions of clause 4.4 of the General Conditions of Contract 2015; and
- (ii) 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 4.4.3 of the General Conditions of Contract 2015, the Contractor shall be liable for the acts, defaults and negligence of any Targeted Enterprise, his agents or employees as fully as if they were the acts, defaults or negligence of the Contractor.

G8. MANAGEMENT OF TARGETED ENTERPRISE SUBCONTRACTS

The Contractor shall conclude the subcontract agreements and provide the necessary management support to the Targeted Enterprises. Failure by a Targeted Enterprise to comply with the terms and conditions of the subcontract agreement shall result in penalties being applied or the subcontract terminated.

G8.1 Compilation of subcontract conclusion agreement

- (a) The Contractor in liaison with the Employer and Employer's Agent shall be responsible for the conclusion of each subcontract agreement. The agreement shall be in accordance with the provisions of clause 4.4 of the General Conditions of Contract 2015 and shall be consistent with the terms and conditions in this contract. The agreement shall be subject to approval by the Employer and Employer's Agent.
- (b) The terms and conditions of the subcontract agreement shall also specify the following:
 - (i) an entitlement of the Targeted Enterprise to receive such training as is contemplated in this contract:
 - (ii) an obligation on the Targeted Enterprise to participate and co-operate in such training as is provided for in this contract:
 - (iii) the allowable sources from which workers may be drawn in terms of the contract;
 - (iv) the terms and conditions relating to the recruitment, employment and remuneration of workers engaged on the contract;
 - (v) the training to be provided to the workers; and
 - (vi) the terms and conditions relating to payment of the Targeted Enterprise. Such terms and conditions shall also include a clause stipulating that payment to a Targeted Enterprise for work done shall be made within 30 days of submission of the invoice by the Targeted Enterprise to the Contractor. In the event of failure by the Contractor to make the payment by the due date, he shall pay to the Targeted Enterprise interest, at the prime overdraft rate charged by the Targeted Enterprise's bank, compounded monthly, on all overdue payments from the date on which the same should have been paid to the date when payment is effected, without prejudice to the Targeted Enterprise's other rights under the contract or by law.

G8.2 Quality of work and performance of the Targeted Enterprise

(a) The Contractor shall closely monitor and supervise all Targeted Enterprises and shall train, mentor, guide and assist each Targeted Enterprise 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 training, mentoring, 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 Targeted Enterprise to achieve the successful execution and completion of their subcontract.

(b) The Contractor shall closely monitor and supervise all Targeted Enterprises and shall give reasonable warning to the Targeted Enterprise 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 Targeted Enterprise reasonable opportunity to make good any such contravention, or to avoid such contravention, and shall render all reasonable assistance to the Targeted Enterprise in this regard.

G8.3 Dispute avoidance and resolution procedures

- (a) When taking any disciplinary action or imposing a penalty as provided for in the subcontract, the Contractor shall explain fully to the Targeted Enterprise that such actions are provided for in the subcontract. If such action is contemplated this shall be discussed with the Employer's Agent before any action is taken.
- (b) If the Targeted Enterprise, in the opinion of the Employer's Agent, fails to comply with any of the criteria listed below, the Employer's Agent shall issue a written warning to the Contractor, stating all the areas of non-compliance. A copy of the letter of warning shall be forwarded to the Employer. The criteria are as follows:
 - (i) acceptable standard of work as set out in the specifications;
 - (ii) progress in accordance with the time constraints in the Targeted Enterprise's contract;
 - (iii) punctual and full payment of the workforce and suppliers;
 - (iv) site safety; and
 - (v) accommodation of traffic.
- (c) The Targeted Enterprise shall have 21 days from the date of receipt of the letter of warning by the Contractor to address and rectify the issues raised by the Employer's Agent, with the exception of the above subclauses (b)(iv) and (v) for which the reaction time shall be in accordance with the relevant specifications for those aspects of the Works but shall not be longer than 24 hours. Failure by the Targeted Enterprise to comply with the deadline set, will be sufficient grounds for the Contractor to apply a penalty, or terminate the subcontract provided that the Employer's Agent is satisfied that the Contractor has made every effort to correct the performance of the Targeted Enterprise.
 - (c) The Targeted Enterprise shall have the right to dispute any ruling given or deemed to have been given by the Contractor, Employer's Agent or Employer. Provided that, unless the Targeted Enterprise shall, within 21 days after his receipt of a ruling or after a ruling shall have been deemed to be have been given, give written notice (hereinafter referred to as a Dispute Notice) to the Contractor, referring to this clause, disputing the validity or correctness of the whole or a specified part of the ruling, he shall have no further right to dispute that ruling or the part thereof not disputed in the said notice.

- G9. TRAINING, COACHING, GUIDANCE AND MENTORING
- **G9.1** Obligations

This section provides details of the Contractor's obligations of implementing the National Skills Development Strategy. This strategy sets priorities for the skills development of workers. The Sector Education and Training Authorities (SETA) and provincial offices of the Department of Labour will play key roles in transforming the vision of the strategy into reality.

Supervision is included as part of the contractor's general obligations for the administration and management of the Targeted Enterprises. However, training, coaching, guidance and mentoring are not included as part of the Contractor's general obligations unless specific provision to that effect has been made in the project specifications.

The Contractor shall, from the commencement of the contract, provide a structured development programme designed to improve the entrepreneurial and basic business management skills of identified Targeted Enterprises and hired labour, as well as to improve their specific task skills (construction skills) commensurate with the applicable levels of subcontract that will enable the Targeted Enterprises to achieve the successful execution and completion of their subcontracts. The ultimate objective of training, coaching, guidance and mentoring is to develop the Targeted Enterprises as far as their potential allows.

G9.2 Definitions

G9.2.1 Training

Training refers to the process of teaching a learner – usually in a classroom or simulated work environment situation. Training usually takes place with one teacher/trainer and several learners. Principles and theory are taught. Demonstrations are given. Assignments are then set to ensure that the learner is able to apply what has been taught. Training is done by a specialist in the subject, who is also qualified to train.

Example: Use of a dumpy level

Training would involve the theory of how a dumpy level works and how to calculate levels. A demonstration of how to set up and read a level could be given.

G9.2.2 Coaching

Coaching refers to hands-on training and is mostly on a one-on-one basis of tangible and measurable skills. It is typically on-site training, or learning-on-the-job. Coaching is training by the process of "watch-do-correct-practice". The coach does the task while the learner watches and asks questions. Then the learner does the same task while the coach watches. The learner is corrected until the coach feels that he has the gained competence in the function. The learner is then left to practise the task or skill, which the coach oversees. Coaching is imparting a skill – usually manual or physical. A coach is usually a person doing the same type of work on a higher or more competent level, or a person who has a mastery of the skill/task. While training gives the theory or shows/explains the principles, coaching helps the learner become competent and master a skill. A coach is often in the direct reporting line, i.e. someone in authority. Coaching could be part of the management function and would make the job run more smoothly.

Example: Use of a dumpy level

Coaching would involve taking the learner onto site, setting up a dumpy level, reading levels. Then the coach would get the learner to do the job, while the coach checked the setting up and reading. Once the learner understands and can do the tasks, the coach checks periodically to ensure the learner is still doing the job properly.

The desired outcome of coaching is for the learner to "fit-the-mould", and to do things the same way and to the same standard as the coach.

G9.2.3 Guidance

Guidance is anticipating where one might go wrong, or where one is doing a task in a complicated, inefficient or ineffective way, and giving advice as to how to achieve a better result. Guidance is mostly

given by a person in the direct reporting line, but can be given by anyone. Guidance is not imparting skills, but suggesting ways to improve performance.

Example: Use of a dumpy level

A person who knows how to use a dumpy level would be given guidance as to where he would next set up the level to limit the number of set-ups. Guidance could be an extension of coaching.

G9.2.4 Mentoring

Mentoring is developing a person on a long-term career path. It is mostly about imparting skills that are often intangible and non-measurable. A mentor is seldom anyone in the direct reporting line – although he could be a person several levels higher in that reporting line. Mentoring is more about developing a relationship and taking a personal interest in an individual. A mentor looks out for that individual and gives him advice that cannot be found in a book or in the normal course of business. The sort of issues a mentor discusses with the protégé include company politics, how to pick up work before others get wind of it, how to position one's company to get a better competitive advantage, how to tender such that the tender is lowest but the profit is as good as or better than the next person, how to determine and assess risk. Mentoring helps the protégé think strategically, sharpen entrepreneurial skills and grow – both personally and in terms of the company. A mentor helps the protégé to develop insight and shrewdness. It is more about business skills to survive long-term than the technical, tactical or day-to-day activities of doing business.

The desired outcome of mentoring is for the protégé to develop his own style, i.e., to shape his own "mould".

G9.2.5 Supervision

Supervision is instruction regarding the work to be performed, and ensuring it is carried out to specification and to the satisfaction of the supervisor. It is not instruction on how the work is to be performed, but rather on what work has to be performed, and usually has specific time frames.

G9.3 Assessment of Targeted Enterprise potential

It is the responsibility of the Contractor to determine the level of development required by each Targeted Enterprise. This will require that the Contractor determine the level at which the Targeted Enterprise can operate competently and determine the skills already acquired by the Targeted Enterprise in terms of training and on-the-job experience. In some circumstances Adult Basic Education Training (ABET) will need to be started before any formal training can commence. The assessment of each appointed Targeted Enterprise is to be produced by the Contractor for discussion with the Employer and Employer's Agent at a meeting following the appointment of the Targeted Enterprise.

G9.4 Development Plan

Within a month of the meeting with the Employer and Employer's Agent on the Targeted Enterprise assessments, the Contractor is to present a development plan, specific to each Targeted Enterprise. The development plan is to be reviewed by the Employer and Employer's Agent for appropriateness before being implemented.

The development plan is to include the following:

- (i) specify the development needs of each Targeted Enterprise contracting entity the systems the entity lacks;
- (ii) specify the development needs of the individuals comprising the entity the skills the individuals within the entity lack;
- (iii) the level to which that activity will be developed within the period of the contract;
- (iv) whether training, coaching, guidance and/or mentoring is to be given in each activity; and
- (v) the person/s responsible for each activity.

G9.5 Identification and general training of potential Targeted Enterprises

- (a) The progression of training, coaching and mentorship may need to start with the identification and general training of identified Targeted Enterprises and hired labour, and should end with their acquisition of sufficient management skills that will equip them to compete confidently for subcontract work beyond the duration of this contract. In addition, generic skills shall be taught where the need for these has been identified as being necessary amongst Targeted Enterprise workforces and hired labour.
- (b) Before commencing with any structured training, the Contractor shall submit his intended programme to the Employer and Employer's Agent for approval of its subject content and proposed trainers, and the Contractor shall, if so, instructed by the Employer and Employer's Agent, alter or amend the programme and/or course content.

The Contractor shall be responsible for the provision of everything necessary for the delivery of the various training workshops and modules including:

- (i) provision of a suitable fully serviced training venue facility;
- (ii) procurement of suitable accredited trainers;
- (iii) provision, in conjunction with the accredited trainers, of all the necessary training materials, including stationery and study materials; and
- (iv) transportation of the learners to and from the training venue facility (it is therefore in the Contractor's interest that the training venue facility be provided on the site in order to reduce these transportation costs).

Payment to the Contractor for carrying out the training function shall be effected through the pay items provided in this Part G, using the training facility provided under Part F: Expanded Public Works Programme.

G9.6 Activities

The tasks for each of the activities making up the development plan include material, equipment and general tasks, for training on technical, contractual, financial, human resources, legislative and general administrative functions.

The Construction Manager, site clerk and HR Manager will train/coach or mentor the above listed functions as part of on-site training.

G9.7 Portfolio of Evidence

The Contractor is to develop and/or maintain a portfolio of evidence for each Targeted Enterprise. The Portfolio of Evidence is a collection of proof of the training, coaching, guidance and mentoring inputs provided to the Targeted Enterprise and is similar to a log book used by technical students completing experiential training. It is a living document which records the development progress of the Targeted Enterprise and will need to be updated continually throughout the duration of the contract. It remains the property of the Targeted Enterprise who must take it to their next contract.

The Portfolio of Evidence should include the following documentation:

- (i) the development path designed for each Targeted Enterprise:
- (ii) the training courses completed by the Targeted Enterprise;
- (iii) the hours of guidance, coaching and mentoring received for each activity listed in the development plan:
- (iv) a list of outcomes achieved at each level for each activity;
- (v) six-monthly progress reports on the development provided (inputs) versus the actual progress made (output) by the Targeted Enterprise; and
- (vi) a list of competencies.

G9.8 Training Requirements

Only qualified trainers employed by training agencies that are accredited by the relevant Sector Education

and Training Authorities (SETA), or other institutions recognised by the Department of Labour shall deliver any training. "Accredited training" refers to both the trainers as well as to the training material. Certificates affirming the successful participation in the various courses shall be presented to each attendant.

The Contractor shall facilitate in the delivery of training by instructing and motivating the hired labour and relevant Targeted Enterprises regarding attendance and participation. All training shall take place within normal working hours, or as agreed with the trainees.

G9.9 Development training

The Contractor will arrange training to support the development of the Targeted Enterprise. This training must be provided by training providers accredited with the relevant SETA pertaining to the course material being presented. The training will take place at hours agreed with the trainees, possibly on a part time basis after hours.

The following training courses are recommended to support the development programme detailed in the contract document:

- (i) NQF Level 2: Construction Contractor Business owner and administration officer;
- (ii) Tender training NQF Level 3 Business owner / Technical expert;
- (iii) Computer literacy training Business owner and admin officer Microsoft Windows, email, Microsoft Word and Microsoft Excel;
- (iv) General bookkeeping relevant to construction Business owner and admin officer;
- (v) Tendering NQF Level 4 and 5 Business owner / Technical expert; and
- (vi) Construction supervision (Roadworks) NQF Level 4 Business owner / Technical expert.

G9.10 Safety Training

The Targeted Enterprise's safety representative is to be fully trained in all aspects of safety and his duties in this regard. The owner of the Targeted Enterprise is to be trained on his responsibilities regarding safety regulations.

G9.11 Construction skills training

The focus of training provided on the contract should be to support the development of the Targeted Enterprise subcontractor. Construction skills training will only be approved by the Employer's Agent when appropriate.

The Targeted Enterprise, their workforce and hired labour that are selected will be entitled to receive structured training that will improve on-task skills necessary for the execution and successful completion of the works. The Contractor, in conjunction with the Employer's Agent, shall monitor the progress of the hired labour and each Targeted Enterprise closely and shall identify those who, in their collective opinion, will benefit from structured construction skills training as may be provided for in the contract, and where required by the Employer's Agent shall make recommendations in this regard. The final list of candidates shall be decided between the Contractor and the Employer's Agent, and those selected shall receive formal construction skills training in a programmed and progressive manner throughout the duration of the contract.

The training programme shall offer complete courses that could comprise some or all of the following modules:

- (i) Use and maintenance of hand tools;
- (ii) Operation of equipment;
- (iii) Manufacture and installation of minor precast concrete units;
- (iv) Erect, dismantle and maintain formwork;

- (v) Basic concrete skills;
- (vi) Excavation, backfill and compaction;
- (vii) Bricklaying; and
- (viii) Erosion protection using stone pitching, gabions or renos.

G9.12 Training venue facility

The training venue facility to be provided by the Contractor is described in clause F5.6 of Part F. This facility shall be used to deliver all training, irrespective of whether it is delivered in terms of Part F or Part G of the Particular Specifications.

G10. MEASUREMENT AND PAYMENT

Note:

In order to avoid duplication of training facilities, the training facility required for the training described in this Part G: Small Contractor Development, shall be measured and paid for in terms of the pay items provided for training in Part F: Expanded Public Works Programme.

Item Unit G10.01 **Procurement of Targeted Enterprises:** Management and execution of Targeted Enterprise procurement (a) process: (i) Procurement process for the appointment of CIDB contractor grading designation 1 Targeted Enterprise subcontractor (100 copies of the tender document required for each individual tender)number (No) (ii) Procurement process for the appointment of CIDB contractor grading designation 2 Targeted Enterprise subcontractor (80 copies of the tender document required for each individual tender)number (No) (iii) Procurement process for the appointment of CIDB contractor grading designation 3 Targeted Enterprise subcontractor (60 copies of the tender document required for each individual tender)number (No) Procurement process for the appointment of CIDB contractor (iv) grading designation 4 Targeted Enterprise subcontractor (50 copies of the tender document required for each individual tender)number (No) (v) Procurement process for the appointment of CIDB contractor grading designation 5 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual tender)number (No) (vi) Procurement process for the appointment of CIDB contractor grading designation 6 Targeted Enterprise subcontractor (40 copies of the tender document required for each individual tender)number (No)

The unit of measurement shall be the number of individual subcontract agreements concluded with Targeted Enterprise subcontractors according to the CIDB contractor grading designation for all classes of

construction works, in accordance with the procurement process described in this Part G.

Each tendered rate shall be in full compensation for the management and execution of the Targeted Enterprise procurement process in the relevant CIDB contractor grading designation scheduled, including for the compilation, printing, binding and issue of the tender documents for each tender, for the advertising of each tender, for the provision of the venue and the conducting of each compulsory briefing session for tenderers, for the conducting of each tender opening process, for the adjudication of the tenders received for each tender, for the preparation of each tender adjudication report and the review thereof in conjunction with the Employer and Employer's Agent, for the award of each tender and for the conclusion of the subcontract agreement with each successful Targeted Enterprise subcontractor tenderer.

Item Unit

G10.02 Construction Works for Targeted Enterprise subcontractors:

- (d) Handling costs and profit in respect of subitem G10.02(c)......percentage (%)
- (e) Management of the Targeted Enterprise sub-contractor's month

Expenditure under subitems G10.02(a) and (c) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum for subitem G10.02(a) is provided to cover the total cost of the construction Works carried out by the Targeted Enterprises subcontractors based on proof of payment made by the Contractor, as certified by the Employer's Agent, in separate payments for each Targeted Enterprise subcontractor in accordance with Part G of the Particular Specifications.

The tendered percentage for subitem G10.02(b) is the percentage of the amount actually spent under subitem G10.02(a), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the construction Works carried out by the Targeted Enterprise subcontractors.

The provisional sum for subitem G10.02(c) is provided to cover the total cost of the materials and small construction equipment supplied by the Contractor to assist the Targeted Enterprise subcontractors based on proof of payment made by the Contractor, as certified by the Employer's Agent, in separate payments for each Targeted Enterprise subcontractor in accordance with Part G of the Particular Specifications.

The tendered percentage for subitem G10.02(d) is the percentage of the amount actually spent under subitem G10.02(c), and shall include full compensation for the handling costs of the Contractor and the profit in connection with the supply of materials and small construction equipment by the Contractor to assist the Targeted Enterprise subcontractors.

The unit of measure for subitem G10.02(e) is month or part thereof that the service is required. Payment shall only be made for the period one or more appointed Targeted Enterprise subcontractors are on site in the execution of the works. The tendered rate shall include full compensation for the conclusion of all the subcontract agreements and the management of all Targeted Enterprise subcontractors, including for the provision of the necessary management support, coaching, guidance and mentoring to the Targeted Enterprise subcontractors.

Item Unit

G10.03 Training of Targeted Enterprise subcontractors:

(a)	Generic skills:
(i)	Training costs provisional sum (Prov sum)
(ii)	Handling costs and profit in respect of subitem G10.03(a)(i)percentage (%)
(b)	Entrepreneurial skills:
(i)	Training costs provisional sum (Prov sum)
(ii)	Handling costs and profit in respect of subitem G10.03(b)(i)percentage (%)
(c)	Construction skills:
(i)	Training costs provisional sum (Prov sum)
(ii)	Handling costs and profit in respect of subitem G10.03(c)(i)percentage (%)
(d)	Transportation and accommodation costs of selected learners only, while receiving off-site training:
(i)	Transportation and accommodation costs provisional sum (Prov sum)
(ii)	Handling costs and profit in respect of subitem G10.03(d)(i)percentage (%)

Expenditure under subitems G10.03(a)(i), (b)(i), (c)(i) and (d)(i) shall be in accordance with clause 6.6 of the General Conditions of Contract 2015.

The provisional sum for each of subitems G10.03(a)(i), (b)(i) and (c)(i) is provided to cover the total costs of the required training in generic skills, entrepreneurial skills and construction skills respectively, including for the procurement of the services of the accredited trainers and their delivery of the training courses to the learners employed by Targeted Enterprise subcontractors, the provision of all training materials including all stationery and study materials, and the wages of the learners for the duration of the courses. The payment of wages to learners in terms of subitems G10.03(a)(i), (b)(i) and (c)(i) will only be made to those learners who attend and successfully complete each course of the approved training programme. Payment shall not be made to learners who, once selected, do not attend or only partially complete structured training courses.

The Contractor's own personnel shall be permitted to attend the training courses provided for the learners employed by the Targeted Enterprise subcontractors only to the extent that the venue and its facilities can efficiently and comfortably accommodate the additional number of learners. All additional costs relating to such attendance by the Contractor's own personnel shall be carried by the Contractor and shall not be considered for payment in terms of item G10.03, including for any additional costs related to the accredited trainers and their delivery of the training courses, the provision of additional training materials, and the wages of the learners from the Contractor's own personnel for the duration of the courses.

The tendered percentage for each of subitems G10.03(a)(ii), (b)(ii) and (c)(ii) is the percentage of the amount actually spent under each of subitems G10.03(a)(i), (b)(i) and (c)(i) respectively, and shall include full compensation for the handling costs of the Contractor, and the profit in connection with the provision of the training in generic skills, entrepreneurial skills and construction skills respectively, including for the costs of record keeping and reporting with respect to the training received by each learner, and the costs of the compilation of the portfolio of evidence with respect to each Targeted Enterprise subcontractor.

The provisional sum for subitem G10.03(d)(i) is provided to cover all costs related to the transportation and accommodation costs of selected learners only, while receiving off-site training, where such learners have been specifically selected in conjunction with the Employer's Agent to receive such off-site training and where such training cannot be delivered using the training venue facility provided by the Contractor.

The tendered percentage for subitem G10.03(d)(ii) is the percentage of the amount actually spent under subitem G10.03(d)(i), and shall include full compensation for the handling costs of the Contractor, and the

profit in connection with the transportation and accommodation costs of selected learners only, while receiving off-site training.

BILL OF QUANTITIES PART G: SMALL CONTRACTOR DEVELOPMENT

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 1.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS			
C1.3.1	The Contractor's general obligations			
C1.3.1.1	Fixed obligations		L/Sum	1
C1.3.1.3	Time-related obligations		Month	10

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 1.5

ITEM	DESCRIPTION	LI	UNIT	QTY
C1.5	ACCOMMODATION OF TRAFFIC			
C1.5.7.1	Delineators including mounting bases and ballast:			
	(a) Single sided, reversible left or right (900mm)		No	200
	(b) Double sided, reversible left or right (900mm)		No	1000
C1.5.7.3	Flagmen		Man/shift	2 640

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 1.5

ITEM	DESCRIPTION	LI	UNIT	QTY
C1.7	LOADING AND HAULING			
C1.7.1	Loading			
C1.7.2.1	Hauling material for use in the works and offloading it on site of the work			
	(a) Soil gravel crushed stone and pavement layer		m³-km	459 354

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 3.1

ITEM	DESCRIPTION	LI	UNIT	QTY
C3.1	DRAINS			
C3.1.1	Excavation for open drains:			
C3.1.1.1	Excavating all material situated within the following depth ranges below the surface level using conventional methods:			
	(a) 0m to 1.5m		m³	1 708
C3.1.1.2	Extra over sub-item C3.1.1.1 for excavation in hard and boulder material, irrespective of depth		m³	500
C3.1.1.4	Excavating soft material situated 0m to 1.5m below the surface level using labour enhanced construction method	LI	m³	130
C3.1.3.3	Using labour enhanced construction methods			
	(a) Manholes and inlet and outlet structures	LI	No	26
C3.1.4	Excavation and disposal of material for subsoil drainage system			
C3.1.4.1	Excavating in all material situated within the following depth ranges below the surface			
	(a) 0m to 1.5m		m³	4 110
C3.1.4.4	Extra over sub-item 3.1.4.1 for excavation in hard and boulder material irrespective of depth		m³	600
C3.1.5	Impermeable backfilling to subsoil drainage:			
C3.1.5.1	Un-stabilised natural gravel obtained from approved sources on the site.		m³	1 000
C3.1.7	Natural permeable material in subsoil drainage system (approved crushed stone)			
C3.1.7.2	Crushed stone obtained from commercial sources 20mm stone	LI	m³	200

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 3.1

ITEM	DESCRIPTION	LI	UNIT	QTY
C3.1	DRAINS			
C3.1.8	Natural permeable material I subsoil drainage			
C3.1.8.2	Natural sand from commercial source	LI	m³	600
C3.1.9	Pipes in subsoil drainage systems:			
C3.1.9.1	U-PVC pipes and fittings, normal duty, complete with coupling (110mm perforated pipes)	LI	m	2080
C3.1.11	Geotextile	LI	m²	3 470
C3.1.13.1	Outlet structures	LI	No	10
C3.1.13.2	Inspection boxes	LI	No	10
C3.1.13.3	Junction boxes	LI	No	10
C3.1.13.4	Cleaning eyes	LI	No	10
C3.1.14	Caps for subsoil drainpipe:			
C3.1.14.1	Concrete caps	LI	No	10
C3.1.15	Repairing or replacing existing drainage		Prov -Sum	1
C3.1.16	Loading and hauling of material in excess of 1km		m³-km	8 400

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 3.2

ITEM	DESCRIPTION	LI	UNIT	QTY
C3.2	CULVERTS			
C3.2.1	Excavation for culvert structures:			
C3.2.1.1	Excavating in all material situated within the following depth ranges below surface level:			
	(a) 0m to 1.5m	LI	m³	208
	(c) Exceeding 1.5m and up to 3.5	LI	m³	30
C3.2.2	Backfilling:			
C3.2.2.1	Using the excavated material	LI	m³	213
C3.2.2.2	Using imported selected material:	LI	m³	20
C3.2.3	Concrete pipe culverts			
C3.2.3.3	On class C bedding (Ogee pipe and 600mm diameter)	LI	m	87
C3.2.7	Cast in situ concrete and formwork			
C3.2.7.1	In Class A bedding, screeds, concrete backfill and the encasing for pipes, including formwork (20/19Mpa	LI	m³	25
C3.2.7.5	In inlet and outlet structures including kerbs, chutes and down pipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surface finish (20/19 Mpa)	LI	m³	10
C3.2.9	Prefabricated concrete inlets and outlets to culverts (600mm diameter)	LI	No	17
C3.210.3	Welded steel fabric ref 193	LI	kg	290
C3.2.16	Brickwork:			
C3.2.16.2	230 mm thick	LI	m²	191
C3.2.24	Compaction of bedding for inlets, outlets, manholes and catchpits:			
C3.2.24.1	Preparation and compaction of in situ bedding material to 90% of MDD	LI	m³	100

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 3.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LINING FOR OPEN DRAINS			
C3.3.2.	Concrete kerbing-channelling combination:			
C3.3.2.2	Cast in situ kerbing and channelling (SD0701/A Fig 6:			
	(a) Fig 6 SD0701/A on concrete bedding class 20/19 Mpa:	LI	m	2 117
C3.3.3	Extra over items C3.3.2 for concrete kerbing or concrete kerbing and channelling on curves			
C3.3.3.1	On curves of radii more than or equal to 5,0 m but let than 20m	LI	m	210
C3.3.6	Concrete Chutes			
C3.3.6.2	Cast in situ concrete chutes (SD0605/A, Class 20/19Mpa, U2 surface finish	LI	m	100
PSC 3.3.7	Sidewalks			
	a) Trimming i) In soft material	LI	m²	3 176
	ii) In intermediate and hard material	LI	m²	318
	b) Formwork to cast in situ concrete lining for sidewalks (Class F2 surface finish)			
	i) To sides with formwork on the internal face only	LI	m²	215
	ii) To ends of slabs	LI	m²	160
	c) Sealed joints in concrete and stone pitched lined of sidewalks closed cell expanded polyethylene joint at every 12m	LI	m	300
	d) Reinforcement			
	i) Welded steel fabric Ref 193	LI	kg	6 129
	e) Cast in situ concrete lining (20/19 MPa concrete sidewalks)	LI	m³	320
	f) Class U2 surface finish to cast insitu concrete	LI	m²	3176

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 3.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C3.3 C3.3.8	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LINING FOR OPEN DRAINS Linings for open drains:			
C3.3.8.1	Cast in situ concrete lining (20/19 MPa concrete lined drain SD601/C)	LI	m³	350
C3.3.8.2	Class U2 surface finish to cast in situ concrete (20/19 MPa concrete lining drain SD0601/C	LI	m²	3 500
C3.3.9	Formwork to cast in situ concrete lining for open drain (Class F2 surface finish)			
C3.3.9.1	To sides with formwork on the internal face only	LI	m²	420
C3.3.9.3	To ends of slabs	LI	m	174
C3.3.10	Sealed joints in concrete and stone pitched lined of open drains closed cell expanded polyethylene joint at every 12m		m	485
C3.3.12.	Reinforcement			
C3.3.12.3	Welded steel fabric Ref 193	LI	kg	111 780
C3.3.15	Energy dissipaters in outlet structures			
C3.3.15.1	Cast insitu concrete blocks in outlet structures (SD0603/1)	LI	No	20
C3.3.15.2	Stone set in outlet structures (SD0603/1)	LI	m²	100
PSC3.3.16	Trimming for construction of side drains			
	i) In soft material	LI	m²	3 500
	ii) In intermediate and hard material	LI	m²	1 400

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 3.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C4.1	BORROW MATERIALS			
C4.1.12	Stockpiling of material:			
C4.1.12	Material obtained direct from excavation	LI	m³	4 349
C4.1.15.1	Shaping and finishing the borrow pit and quarry areas, and the stockpile sites			
	(c) Stockpile sites		ha	0.5

Contract No. ZNB00149/00000/00/INF/20/T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 4.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C4.3	EXISTING ROAD MATERIALS			
C4.3.19	Spoiling of paving blocks and road edging in spoil sites designated by the Contractor			
C4.3.19.1	Paving blocks		m²	2 600
C4.3.19.2	Precast and in situ concrete kerbing, edge beams and channels at precast kerbing		m	100
PSC4.3.20	Re-instating paving blocks used as parking's			
	a) Paving blocks		m²	5 100

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 5.4

ITEM	DESCRIPTION	LI	UNIT	QTY
C9.1	ASPHALT LAYERS			
C9.1.1	Asphalt mix designs:			
C9.1.3	Application of bond coat			
C9.1.3.1	Stable grade 30% net bitumen emulsion as specified. Applied with a calibrated distributer		I	26 530
C9.1.5	Asphalt surfacing			
C9.1.5.2	New construction			
	(a) Stone skeletal mix - continuously graded as defined (40mm layer thickness, binder type, design class/level and placing technique)		m²	36 177
C9.1.7	Placing and compacting asphalt in restricted areas			
C9.1.7.1	Extra over payment item C9.1.4.1 and C9.1.5.1 (state layer thickness, mix class, binder type, nominal maximum particle size and placing technique (hand)		m²	1 500

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 3.3

ITEM	DESCRIPTION	LI	UNIT	QTY
C11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION			
C11.1.1	Foundation trenches for stone masonry walls:			
C11.1.1.1	Excavating foundation trenches in soft material using labour enhanced construction methods 0 m to 1,0 m depth	LI	m²	102
C11.1.2.	Stone pitching			
C11.1.2.3	Grouted stone pitching on a concrete bed	LI	m²	677
C11.1.6	Concrete edge beams 0.3m deepx0.3m wide (class of concrete 25/19Mpa)	LI	m³	20

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 11.2

CHEDULE A: ROADWORKS			Cit	APIER 11.2
ITEM	DESCRIPTION	LI	UNIT	QTY
C11.2	NON-STRUCTURAL GABIONS			
C11.2.1	Foundation trench excavation:			
C11.2.1.1	Excavating all material situated within the following depth ranges below the surface level			
	(a) 0 m to 1,5 m	LI	m³	35
C11.2.1.2	Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	LI	m³	4
C11.2.1.3	Excavation soft material 1.5m below the surface level using labour enhanced construction method	LI	m³	90
C11.2.2	Surface preparation for bedding the gabion boxes and mattresses	LI	m²	200
C11.2.3	Gabion boxes and mattresses:			
C11.2.3.1	Galvanized gabion boxes (1m x 1m x 2m)	LI	m³	75
C11.2.3.3	Galvanized gabion mattresses (6.0m x2.0m x0.3m)	LI	m³	150
C11.2.4	Geotextile (Grade 3 geofabric)	LI	m²	200

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 11.3

	: ROADWORKS	CHAPTER 1		
ITEM	DESCRIPTION	LI	UNIT	QTY
C11.3	GUIDE BLOCKS AND KILOMETRE MARKERS			
C11.3.2	Kilometre markers mounted on concrete reinforced pipes (600mm x600mm diameter)	LI	No	10
_				

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 11.4

ITEM	DESCRIPTION	LI	UNIT	QTY
C11.4	ROAD RESTRAINT SYSTEMS			
C11.4.1	Erecting of guardrails at 3,81 m spacing			
C11.4.1.1	Complete galvanized system compliant to SANS 1350:			
	(a) On timber posts (SD1101/B)	LI	m	500
	(d) Extra over C11.4.1.1(a) and C11.4.1.1(b) for excavating holes of posts using labour enhanced methods (soft and intermediate)	LI	m	80
C11.4.1.2	Terminal sections for 3,81 guardrails comprising of:			
	(a) End wings to SANS 1350	LI	No	24
	(b) Bullnoses to SANS 1350	LI	No	24
	(e) End treatments where double guardrail sections are specified (SD1102/A)	LI	No	2
	(g) Extra over C11.4.1.2(d) and C11.4.1.2(e) for excavating holes for posts using labour enhanced methods (soft and intermediate)	LI	No	20
C11.4.4	Extra over for horizontally curved guard rails			
C11.4.4.1	Extra over C11.4.1 and C11.4.11 for horizontally curved guard rails factory bent to a radius of less than 45 m		m	80
C11.4.5	Additional guardrail posts for 3,81 m systems:			
C11.4.5.1	Timber	LI	No	100
C11.4.6	Reflective plates			
C11.4.6.1	Steel plates	LI	No	135
C11.4.7	Removing existing guardrails:	LI	m	500

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

CHAPTER 11.6

ITEM	DESCRIPTION	LI	UNIT	QTY
C11.6	ROAD SIGNS			
C11.6.1	Road signboards with painted or coloured semi-matt background. Symbols, lettering and borders in semi- matt black or in Class I retroreflective material, where the sign board is constructed from:			
C11.6.1.1	Aluminium sheet (2,0 mm thick):			
	(b) Area exceeding 0,5 m² but not 2,0 m²	LI	m²	7
	(d) Area exceeding 2,0 m² but not 10 m²	LI	m²	18
C11.6.1.7	Regulatory signs, permanent			
	(a) 600 mm diameter (signboard material, background and symbol retro-reflective class indicated)	LI	No	18
	(b) 900 mm diameter (signboard material, background and symbol retro-reflective class indicated)	LI	No	41
	(c) 1200 mm diameter (signboard material, background and symbol retro-reflective class indicated)	LI	No	41
C11.6.1.7	Regulatory signs, temporary			
	(a) 900 mm diameter (signboard material, background and symbol retro-reflective class indicated)	LI	No	18
C11.6.1.9	Warning signs, permanent			
	(b) 900 mm size (signboard material, background and symbol retro-reflective class indicated)	LI	No	6
C11.6.1.10	Warning signs, temporary			
	(a) 600 mm size (signboard material, background and symbol retro-reflective class indicated)	LI	No	6

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

CHAPTER 11.6

ITEM	DESCRIPTION	LI	UNIT	QTY
C11.6	ROAD SIGNS			
C11.6.5	Excavation and backfilling for road sign supports (not applicable to kilometre posts)			
C11.6.5.1	Excavation soft material and backfilling	LI	m³	5
C11.6.5.2	Excavation soft or intermediate material arbackfilling using labour enhanced construction		m³	2
C11.6.5.3	Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	LI	m³	2
C11.6.5.5	Imported backfill material from commercial sources	LI	m³	5
C11.6.6	Dismantling storing and re-erecting road signs with a surface area of:			
C11.6.6.1	(a) Area 0 to 0.5m ²	LI	No	10
C11.6.6.2	Area exceeding 0.5m² but not exceeding 2.0m²	LI	No	5

Contract No. ZNB 00149/00000/00/INF/20T

SCHEDULE A: ROADWORKS (for Part G: Small Contractor Development)

SCHEDULE A: ROADWORKS

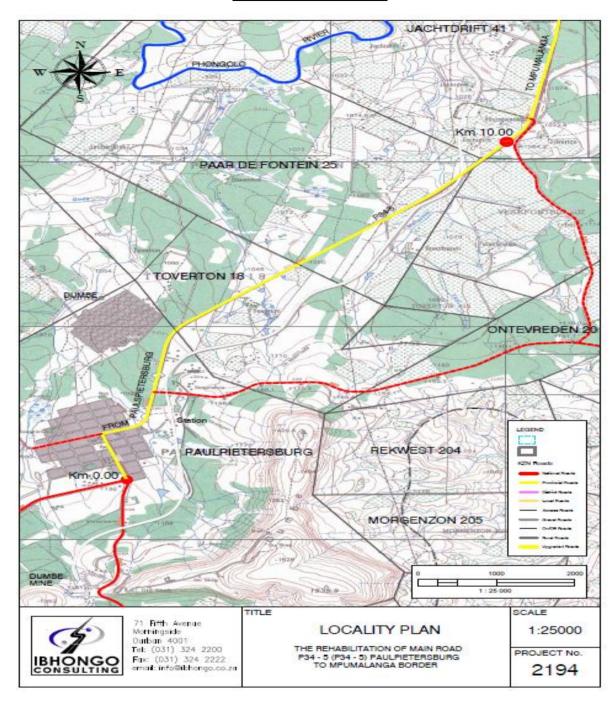
CHAPTER 11.7

ITEM	DESCRIPTION	LI	UNIT	QTY
C11.7	ROAD MARKINGS AND ROAD STUDS			
C11.7.1	Road marking:			
C11.7.1.1	White lines broken or unbroken (paint type and width of line indicated)		km	30
C11.7.1.2	Yellow lines broken or unbroken (paint type and width of line indicated)		km	20
C11.7.1.4	White lettering and symbols (paint type indicated)	LI	m²	420
C11.7.1.7	Transverse lines, painted island and arrestor bed markings (any colour) (paint type indicated)	LI	m²	100
C11.7.1.18	Labour enhanced hand operated pressure applied machine white littering and symbols		m²	200
C11.7.7	Road studs			
C11.7.7.1	Permanent road studs compliant to SANS 1442 (Stimsonite & colours stated)	LI	No	1500
C11.7.7.2	Permanent road studs compliant to SANS 1463 (type & colours stated)	LI	No	1500
C11.7.7.3	Temporary road studs compliant to SANS 1442 or 1463 (type/classification & colours stated)	LI	No	420
C11.7.8	Setting out and pre-marking the lines (excluding traffic island markings, lettering and symbols)	LI	km	30
C11.7.9	Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer		km	40

PART C4: SITE INFORMATION

TABLE OF CONTENTS		Page
C4.1	LOCALITY PLAN	C217
C4.2	EXAMPLE OF CONTRACT SIGNBOARD DETAILS	C218
C4.3	EXISTING SERVICES REPORT	C220
C4.4	CONDITIONS ON SITE: MATERIALS INFORMATION	C222
C4.5	TRAFFIC INFORMATION	C229
C4.6	ANY OTHER RELEVANT TECHNICAL REPORTS	C232

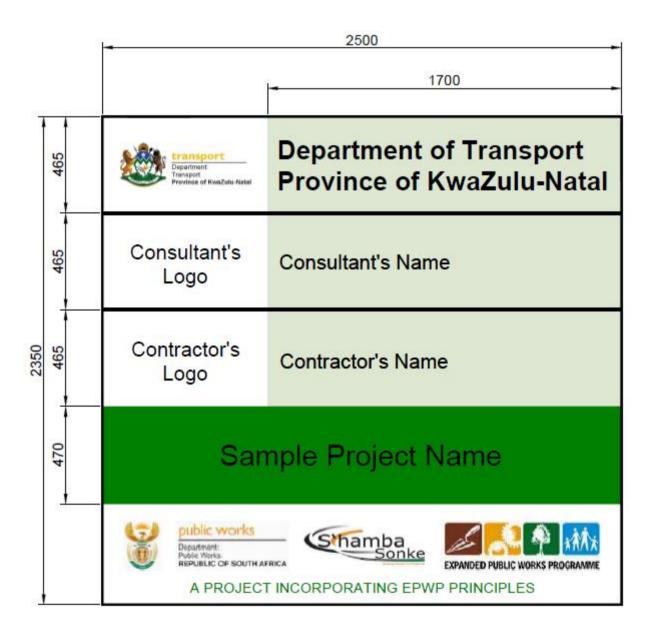
C4.1 LOCALITY PLAN



C4.2 EXAMPLE OF CONTRACT SIGNBOARD DETAILS

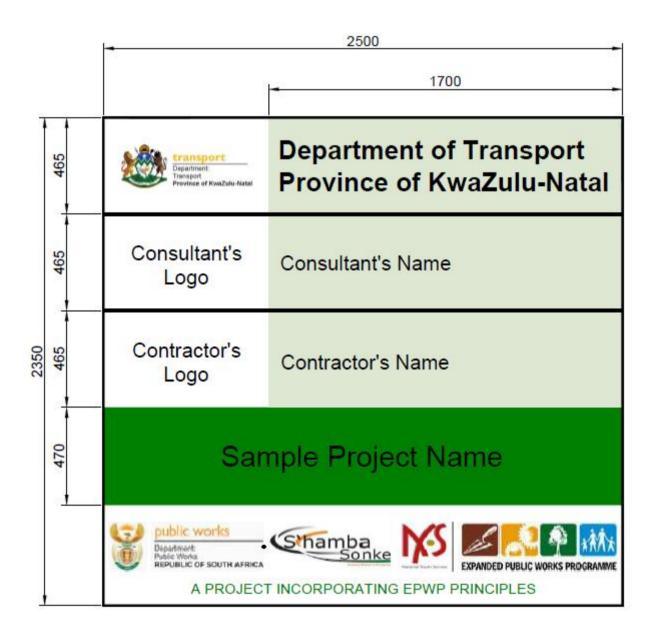
C4.2.1 CONTRACT SIGNBOARD FOR USE WHEN THE NYS PROGRAMME IS NOT REQUIRED:

Note: The "S'hamba Sonke" logo, as indicated below, shall appear on the signboard for Provincial Road Maintenance Grant (PRMG) contracts only. In all other cases it shall be omitted.



C4.2.2 CONTRACT SIGNBOARD FOR USE WHEN THE NYS PROGRAMME IS REQUIRED:

Note: The "S'hamba Sonke" logo, as indicated below, shall appear on the signboard for Provincial Road Maintenance Grant (PRMG) contracts only. In all other cases it shall be omitted.



C4.3 EXISTING SERVICES REPORT

1. Location of services

The known services on the site include:

- Electricity ducts
- Existing boundary fencing
- Waterline supply
- Telkom cables

The following services are scheduled for relocation under this contract:

- Eskom ducts
- Telkom cable
- Waterline supply

The following services are scheduled for relocation under this contract:

It is also expected that unknown buried domestic services crossings requiring relocation or protection may be encountered along the route as the work proceeds. The Contractor shall therefore make every effort to establish the location of any such unknown services in a particular area prior to excavations commencing in that area. Such efforts shall include the Contractor conducting a thorough visual surface inspection for services in the area, and also diligently enquiring of local landowners as to whether there are any known services which have not been shown on the drawings but which may be affected by the construction activities in that area, and any such services shall be brought to the attention of the Employer's Agent immediately. Exploratory hand excavation trenching work shall be carried out where necessary to establish the exact position of buried services.

The Contractor shall take note of the requirements of clause 1202 of the standard specifications with regard to services.

2. <u>Liaison with service owners</u>

Immediately after the site has been handed over to the Contractor and prior to the commencement of any construction work on the site, the Contractor shall arrange a meeting with the relevant authorities to establish the exact location of the various services affected (if any), to plan the necessary services relocations (if required) and to obtain contact details for the service owners' technical and emergency staff.

Where services relocations are required, the Contractor shall arrange regular planning meetings with the service owners until such time as the services have been relocated and commissioned and the existing services uplifted and removed.

3. Protection of existing services

Prior to the commencement of any construction work on the site, the Contractor shall establish markers at 50 m centres (or closer where necessary), clearly delineating the routes traversed by the services within the road reserve as confirmed by the service owners.

Excavation operations shall commence only after the existing services within or in the near vicinity of the excavations have been suitably protected against damage.

The Contractor shall take particular care when carrying out blasting, pneumatic or mechanical breaking, and general excavation operations in the vicinity of the services, and subcontractors, foremen and plant operators shall be fully briefed on precautionary measures to be taken before excavation commences in these areas.

4. Relocation of services

Should any services need to be relocated, the Contractor shall be required to assist the service owner with programming, organising and carrying out the relocation work, in order to minimise any delays in the

construction.

5. Payment for the services relocation work

A provisional sum has been provided under section C1.2 of the bill of quantities to cover the costs of any protection, relocation, realignment, removal or replacement of services that may arise.

C4.4 CONDITIONS ON SITE: MATERIALS INFORMATION

CONTENTS

		PAGE
C4.4.1	DISCLAIMER	C223
C4.4.2	GENERAL DESCRIPTION OF ROAD	C223
C4.4.3	BORROW PIT INVESTIGATION	C223
C4.4.4	MATERIALS FOR CONSTRUCTION	C225

C4.4.1 DISCLAIMER

The information in this document records the results of investigations done and various tests carried out on materials encountered in the existing road. The results are given in good faith and there is no warranty that the results are entirely representative of all the materials that may be encountered, the intention being to give an indication of the materials likely to be encountered.

No responsibility for any consequence arising from variation between the actual material properties and those indicated in this document will be accepted.

The specification and contract drawings shall always overrule this part of the contract documents.

C4.4.2 GENERAL DESCRIPTION OF ROAD

The condition of the road is in a bad condition with severe potholes, cracks and failure of the base and surface. The road passes through Paulpietersburg town. It is the link of KZN and Mpumalanga Province. The major failures of the road are caused by heavy traffic. Therefore, the section from km 0 to km 10 will be rehabilitated hence the road is failing through the entire section of 17 kilometres.

C4.4.3 BORROW PIT INVESTIGATION

Site Description

The existing P34-5 road is situated in the Paulpietersburg area of the eDumbe Municipality. The road starts at km0.00 in Paulpietersburg town (at the intersection of P40-4 and P34-4) in the south and ends at km10.00 which is close to Hlungwane Station (and close to the intersection of P34-5 with D289) in the north.

The road has a stream / river crossing at the approximate chainage of km1.70 where the road crosses over a tributary of the Gode River. Culverts are also found along the route mainly in areas where tributaries of the Gode River (three tributaries are found between km5.00 and 6.00) intersect the road. At km8.60 and km9.60, the tributaries of the Makashini River also intersect the road. A road-over-rail crossing is found at the approximate chainage of km9.00.

The topography of the site is undulating and ranges from level ground along the floodplains of the streams and wetlands, to moderately sloping regions. The road starts at an elevation of 1143m at km0.00 and slowly descends towards the stream crossing at km1.70 to an elevation of 1105m. It then gently climbs the slope to an approximate elevation of 1136m at km3.00 close to eDumbe Township. It then travels to an elevation of 1069m at km5.40 (in the vicinity of the streams between km5.00 and km6.00) and then increases towards km7.00 at an elevation of 1102m. The road is then level and slowly descends towards an elevation of 1039m at km8.60 where it crosses a stream. The road then ascends as it crosses the road-over-rail bridge at an elevation of 1056m and travels up to 1080m towards Hlungwane Station.

The locality plan is found attached as Figure 1.

• Site Investigation

The field work comprised the mechanical excavation of inspection pits, CBR DCP tests, and sampling of in-situ subsoil materials for laboratory testing. The inspection pits test positions were determined using a handheld GPS accurate to approximately 5m.

• Test Pits (TP 1 - TP 6)

A total of six test pits, designated TP's 1-6 were hand-dug using breakers, picks and shovels to investigate the existing asphalt roads layer works, subgrade and subsoil conditions. The pits were excavated at 2km intervals along the route with their positions alternating between the left hand, and righthand side of the road. The pits were taken down to a maximum of 1.0m below existing road level, i.e. ranging from 0.63m to 1.0m depth.

The subsoils exposed in the test pits were examined and logged by a representative from Shenge Soil Design Laboratory familiar with the procedures of soil logging in terms of the standard method for Soil and Rock Logging in South Africa recommended by Jennings, J.E, Brink, A.B.A and Williams, A.A.B (1973). Furthermore, centreline investigation was also conducted by Geosure laboratory to gather more information especial nature of pavement lavers

This included recording the following parameters.

For soil: Moisture content, colour, consistency, soil structure (where applicable), soil type and origin.

For rock: Weathering, colour, bedding and joint spacing, hardness, rock type and origin. The detailed test pit logs are presented in the Shenge Soils Design report.

CBR DCP Tests (CBR DCP 1 - CBR DCP 10)

A total of ten CBR DCP's 1 - 10 were conducted between the inspection pits in the centre of the existing road at an approximate interval of 2km.

The results of the probes are presented graphically within Appendix B of the Shenge report.

Material Sampling

Sampling of representative soil and rock horizons encountered within the excavated inspection pits was undertaken during the field investigation. All samples were returned to Shenge Soils Design Laboratory in Vryheid for analysis which comprised the following;

- Road Indicator testing
- Mod AASHTO Density testing
- California Bearing Ratio (CBR) testing

The results of the grading analysis, Mod AASHTO density and CBR tests are summarised in the laboratory test summary tables along with graphical representation of the grading analyses in AppendixD of the Shenge report. Furthermore, the results have been tabulated under Section 6 below for ease of reference.

Geology and Groundwater

Regional and Local Geology

The geological map shows the Paulpietersburg area to be underlain by Swazian Era Intrusive Rocks comprising Granites and Gneiss (Z-Rg) and the transported and residual soils derived therefrom. Also found in the area are ferricrete soils which are known to form in hot and wet areas.

Transported Material

The test pits mainly comprised fill material. No transported soils were found in the existing test pits.

Layer Works Below Existing Road

The existing road is a tarred road which is generally underlain by:

Surfacing - 30mm Asphalt surface (Pit1-6),

Subbase - 70mm to 500mm G5 to G6 comprising Ferricrete (Pit1, 3, 4&5) or Weathered Granite (Pit2 &6)

Selected Fill - 100mm to 200mm comprising Weathered Granite (Pit2) or Silty Soil (Pit6)

Subgrade - 100mm to 500mm of fill (subgrade) comprising Shale / Rockfill (Pit2&6) which overlies insitu soils / bedrock.

In some areas the Selected Fill and subgrade is absent, and the subbase directly overlie the insitu soils (Ferricrete / Residuum) or bedrock (Weathered Sandstone)

The subbase layer can generally be described as a light brown to yellowish brown, dense, ferricrete or light brown, weathered Granite. This layer is underlain by a selected fill layer which is variable and comprises reworked weathered Granite from the area. The Subgrade material found in the pits comprise reworked Shale material.

Ferricrete

Ferruginised soils were found in the test pits along the route and are generally light yellowish brown medium dense to dense silty sandy gravels. These soils are generally found in Pit1 (at 0.23metres below ground level. - mbgl) and Pit3 (at 0.50mbgl) and are greater than 1m in depth

Residuum

Residual soils are found intermittently along the route in Pit2 (at 0.60mbgl) and in Pit4 (at 0.25mbgl). The soils are generally reddish brown silty to clayey soils and are derived from the insitu weathering of the granite bedrock.

Bedrock

No Granite bedrock was encountered in the test pits on the route.

Sandstone bedrock was encountered at 0.4mbgl in Pit5 and is described as pink weathered Sandstone.

Groundwater

Groundwater seepage was not encountered in any of the test pits excavated on site. Moist soils were found at the sand/clay and soil/rock interfaces in the test pits. Seasonal perched water conditions will occur at these interfaces. Groundwater seepage is also expected in the areas which fall within the stream floodplains and drainage lines

C4.4.4 MATERIAL FOR CONSTRUCTION

C4.4.4.1 Selected subgrade and subbase layers

Geotechnical Assessments

Slope Stability

No evidence of previous or ongoing slope instability was noted along the existing road. Additionally, given the relatively moderate sloping nature of the area along with being a generally stable bedrock type, slope stability is considered to of moderate concern. Notwithstanding the above, localised instability could be induced should any prejudicious cutting and/or filling take place along the road during the upgrade construction.

Taking this into consideration, during construction, should thick clay lenses, localised significant seepage or moderate to steeply inclined strata dipping adversely out of the slope be encountered along portions of the road, slope stability should be further assessed by a Geotechnical Engineer.

- Problem Soils
- ✓ Active Soils

Using the Van der Merwe's potential swell prediction chart (1964), which takes weighted plasticity index and clay content into consideration, the estimated heave potential for the insitu material along the route is low at 2% and less. When coupled with the Van der Merwe's depth factor chart (1964), it is seen that some of the material has a heave potential as low as 1%.

More active soils can be expected to be encountered locally upon excavation.

✓ Collapsible Soils

Where loose gravelly sandy sediment is encountered along the road alignment, these materials should be considered as potentially moderately collapsible in the sense that when subjected to a critical increase in moisture content under load, the soils may undergo a sudden densification and settlement.

✓ Inferred Existing Subgrade Conditions

CBR probing to a maximum depth of 1.0m or refusal along the length of the existing P34-5 Road revealed a similar trend for each of the various underlying in-situ and wearing coarse materials once correlated with inspection pit information. The CBR values are generally high ranging from 100% to 55% correspond with the consistency of the soils, as well as materials ranging from G6 to G5 materials.

CBR DCP tests with shallow refusal where test pits show deeper soils were likely offset slightly by gravel sized fragments in the rockfill. With regards to the above mentioned in-situ CBR DCP test results, it must be noted that the probes provide an indication of the consistency of the material and correlated in-situ CBR value. The probe does not recognise soil parameters such

as PI and swell. Therefore, the results should be used with a degree of caution. Where laboratory testing reveals the true nature of the respective materials and the CBR parameters for each, these values should be applied for design purposes.

Excavatability

Excavatability of the colluvial and residual soils, as well of the completely weathered very soft bedrock materials are expected to classify in general as "soft" excavation according to COLTO CLAUSE 3303 throughout the area across all rock types.

Where highly to slightly weathered, soft to hard bedrock is encountered, excavation will likely increase to "intermediate" to "hard" according to COLTO CLAUSE 3303 and require pneumatic equipment or even blasting to remove in places. However, the depth to highly or moderately weathered bedrock for the different rock types due to their respective proclivity to weather as well the relative position on the slopes may vary greatly and will determine the depth to which easy excavation can be achieved.

Geotechnical Assessments

Earthworks

Using the material classification table, it is evident that the in-situ materials on the route are highly variable and, in some instances, may serve as suitable in-situ subgrade horizon on which to build up the road prism. In areas were deep cuts expose suitable subgrade material these may be stockpiled and used in other areas of the site.

In areas were the in-situ material does not meet the requirements of G10 gravel soils in terms of TRH 14 - 1985, imported material will be needed. It is recommended that in areas of cut, where intersected, the unsuitable material would need to be boxed out and spoiled.

Permanent cut slope batters in the gravelly sandy materials such as the residual soils should be sloped to a batter of 1:2 (26°) with a batter of 1:1.5 (34°) being implemented for competent highly weathered bedrock at the discretion of the Engineer, provided it is not adversely dipping out of the slope or, significant seepage is encountered. Slope batters of 1:3 (18°) must be implemented in loose sandy material such as the alluvium. In addition, it is recommended that all excavations be frequently assessed by a Geotechnical Engineer or Engineering Geologist during the earthwork's operation. All excavations deeper than 1.20m should be shored at the Engineers discretion.

All fills should be constructed using suitable granular material placed in layers of maximum 300mm thickness and compacted to 95% of the materials Mod. AASHTO density prior to placement of the next layer. The maximum particle size of the fill material should not exceed two thirds of the layer thickness. Prior to placement of any fill the natural ground should be stripped of any vegetation. Engineered fills should be laid back to a maximum batter of 1:1.75 (30°). Required fill volumes should consider the expected settlements in the underlying natural materials and the new fill as extra fill will be necessary to achieve design levels. As a rule of thumb consolidation settlement in the order of 1 to 2% of fill thickness is inferred for an engineered fill due to its own mass in the medium term, independent of any imposed load. Hence for fills up to 11.20m thickness, consolidation settlement up to 224mm within the fill can be reasonably expected.

All cut, and fill slopes must be vegetated as soon as possible after construction. Furthermore, road platforms should be graded to ensure they are free draining and side drainage is installed as per Engineers specifications.

• Seepage Areas / Drainage

Given the presence of the shallow perched water table encountered at all stream crossings and especially in Pits which is in a drainage line, ground water seepage should be anticipated in this area during construction and given the observed amount may cause some difficulty during this process.

When seepage is encountered, it should be dealt with symptomatically. Should seepage be problematic, it should be dealt with by either raising the level of the road or installing subsoil drains to prevent seepage affecting the layer works. A drainage pioneer layer prior to placing earthworks also aids in this regard.

General

Construction should be performed in the drier winter months to minimise the effects of ground water seepage. Gentler cut slopes, shoring and de-watering may be necessary if extensive seepage and associated liquified soils are still encountered in the winter months.

A Geotechnical Professional must inspect founding levels and temporary cut slopes.

C4.4.4.2 Crushed stone base

Crushed stone shall be obtained from commercial source. The nearest commercial sources for concrete and aggregate is Afrimat quarry in Vryheid.

The aggregate must conform with specifications on the grading of the 19,0mm surfacing stone as shown on Table 4302/8 of the SANS Standard Specifications.

C4.4.4.3 Concrete and surface seal aggregate, gabion stone and stone for erosion protection works

Crushed stone shall be obtained from commercial source. The nearest commercial sources for concrete and aggregate is Afrimat quarry in Vryheid.

The aggregate must conform with specifications on the grading of the 19,0mm surfacing stone as shown on Table 4302/8 of the SANS Standard Specifications.

C4.4.4.4 Natural sand

Natural sand will be obtained from commercial source. The Contractor will have to make his own arrangements for the procurement of suitable sand for concrete, drainage and other construction purposes from commercial sources.

C4.4.4.5 Water

No specific source of water for construction purposes is identified. The Contractor will have to make his own arrangements in this regard. Water may be available from local rivers and streams but the Contractor will have to make suitable arrangements for access as required as well as for the necessary testing to prove its suitability.

C4.5 TRAFFIC INFORMATION

The traffic data for P34-5 was provided for use by KZN Department of Transport done during May 2017 to September 2017.

Counting stations (7-day counts) were established starting at the intersection with P34-4 and P404 at:

km 0.00 to km 0+370

km 0+900 to km 1+080

km 1+080 to km 1+340

km 1+590 to km 2+430

km 2+430 to km 3+050

km 9+190 to km 10+630

km 10+360 to km 12+630.

TRAFFIC STATIONS INFORMATION ON P34-5

Applicable traffic data has been extracted for the traffic stations and is summarised in Table 5.1

Table 5.1

	Description	Link volumes									
	COUNTING STATION 1 - km 0.00 to	km 0.370									
1.1.	Exponential growth (ADT)	692									
1.2.	Exponential growth (ADTT)	420									
	COUNTING STATION 2 - km 0.900 to	o km 1.080									
1.3.	Exponential growth (ADT)	706									
1.4.	Exponential growth (ADTT)	252									
COUNTING STATION 3 – km 1.080 to km 1.340											
1.5.	Exponential growth (ADT)	737									
1.6.	Exponential growth (ADTT)	46									
COUNTING STATION 4 – km 1.590 to km 2.430											
1.7.	Exponential growth (ADT)	192									
1.8.	Exponential growth (ADTT)	36									
	COUNTING STATION 5 - KM 2.430 TO	O KM 3.050									
1.9.	Exponential growth (ADT)	223									
1.10.	Exponential growth (ADTT)	63									
	COUNTING STATION 6 - KM 9.190 TO	O KM 10.630									
1.11.	Exponential growth (ADT)	28									
1.12.	Exponential growth (ADTT)	56									
	COUNTING STATION - km 10.630 to	km 12.630									
1.13.	Exponential growth (ADT)	299									
1.14.	Exponential growth (ADTT)	136									

The following data will be considered in the traffic analysis:

All the above stations will be considered for growth rate calculations.

Traffic counts will be corrected for one direction.

Change data is considered to estimate an average E80 per heavy vehicle (E80/HV),

as no WIM data is available for the route under consideration.

It is therefore proposed to use loading assumptions calculated using the summarized traffic counts

as summarized for the traffic counts (see Annexure 2) as AADT_L for light vehicles; AADT_B

together with AADT_TS for short vehicles; AADT_TM for medium vehicles; and AADT_TL for long vehicles.

summarised in Table 5.2

Any additional information to be considered.

The route is divided into two sections for pavement design namely:

Km 0.000 to km 1.590, section through the town of Paulpietersburg.

Km 1.590 to km 10.000, rural road.

Table 5.2 SUMMARY OF ASSUMPTIONS OF E80s/HV

SUMMARY OF TRUCK SPLIT (%)						SUMMARY OF TRUCK SPLIT (%)
Count Station	%	HEAVY	TRAFFIC			Count
	HEAVY		CLASS			Station
Truck Split		SHORT	MEDIUM	LONG		Truck Split
E80's/HV		0.7	2.2	4.4		E80's/HV
1	34.3%	81.51%	7.20%	11.29%	ES10	1
2	39.4%	91.23%	4.01%	4.76%	ES10	2
3	34.0%	72.44%	6.64%	20.93%	ES10	3

Notes on available traffic data for traffic analysis.

In terms of the available traffic information, the following is recommended:

According to TRH4 traffic volumes (both ADT and ADTT), P34-5 from km 0.00 to km 1+100 can be classified as a Category B-road, pavement class ES10.

According to TRH4 traffic volumes (both ADT and ADTT), P34-5 from km 1+100 to km 2+700 can be classified as a Category B road, pavement class ES10.

According to TRH4 traffic volumes (both ADT and ADTT), P34-5 from km 2+700 to km 10+000 can be classified as a Category B road, pavement class ES10.

According to KZN GIS, RISFSA classification none, RCAM R3.

According to TRH17, EVUs for a two-lane, two-way road are 1,5 and 4,0 for a flat and rolling terrain respectively.

For the purpose of this analysis a factor 3 is adopted as the terrain varies between flat and rolling.

The capacity of the road on a 50:50 directional split is 2800 passenger cars per hour.

Growth rates of 1%, 3% and 5% were used for the traffic analysis for ADT and ADTT.

A growth rate of 3% is recommended.

Based on Table 5.2, it is recommended that boundary values as shown and the base year 2023 be adopted for further analysis. A conservative directional split of 50/50 is recommended.

C4.6 ANY OTHER RELEVANT TECHNICAL REPORTS

The road width on the first section between km0.00 to km1.928 has the average width of 20.66m surface, hence the balance between km1.928 to km10.00 is 9.5m width.

The recommendation for the deep milling of the entire section since the route link two Provinces (KwaZulu Natal and Mpumalanga. During calculation of pavement layers the road requires milling out of 190mm thickness. The stabilization of the subbase to 300mm thickness and construct the base with crushed stone classified as G2 to 150mm thickness. The surfacing of the entire 10km's with 40mm asphalt. Therefore, the recommendation is to surface with 40mm on the crushed stone. The traffic count for the section is low hence once the route is rehabilitated will attract more traffic especial heavy traffic. The road R34-5 have severe failures due to blocked drainage system and unconstructed drains such as subsoils to mitigate pavement failure due to saturation is recommended. The construction of walkways for the 2,5km's to accommodate pedestrians of Dumbe township.

ANNEXURE A: GUIDELINES FOR CONSTRUCTION AND MAINTENANCE PROJECTS DURING COVID-19 LOCKDOWN



PROJECT SITE OCCUPATIONAL HEALTH AND SAFETY

GUIDELINES FOR CONSTRUCTION AND MAINTENANCE PROJECTS DURING COVID-19 LOCKDOWN

Revision 1/1 July 2020

Contents

1	INTRODUCTION	<i>3</i> 236
1.1	BACKGROUND	C236
1.2	PURPOSE	C237
1.3	OBJECTIVES	C237
2	RISK ASSESSMENT	C237
2.1	BACK TO BASICS	C237
2.2	IMPLEMENTATION OF CONTROL MEASURES	C238
3	SITE OPERATING PROCEDURES	C239
3.1	SELF-ISOLATION	C239
3.2	IF SOMEONE FALLS ILL	C239
3.3	TRAVEL TO SITE	C239
3.4	SITE ACCESS POINTS	C240
3.5	HAND WASHING	C240
3.6	TOILET FACILITIES	
3.7	CANTEENS AND EATING ARRANGEMENTS	
3.8	CHANGING FACILITIES, SHOWERS AND DRYING ROOMS	
3.9	AVOIDING CLOSE WORKING	
	GENERAL PRINCIPLES	
	SITE MEETINGS	
	CLEANING	
4	CONSTRUCTION PROTOCOLS	
4.1	PHYSICAL DISTANCING AND HYGIENE PROTOCOL	
4.2	SITE TRANSPORTATION PROTOCOL	
4.3	CLEANING PROTOCOL	
4.4	SCREENING AND MONITORING PROTOCOL	
	ONYMS	
	TERMS & DEFINITIONS	
	ENDIX A: SAFE PRACTICES ON SITE	
	ENDIX B: SUSPECTED OR CONFIRMED CASE OF COVID-19	
	ENDIX C: COVID-19 DAILY SYMPTOM MONITORING TOOL	
APP	ENDIX D: COVID-19 BASELINE RISK ASSESSMENT	C254
Con	tent of Figures	
Figure	e 1: COVID-19 Alert Levels	C236
Figure	e 2: Risk exposures	C237
	e 3: Infection control strategies	
Figure	e 4: Symptoms of COVID-19	C239

1 INTRODUCTION

Coronavirus Disease 2019 (COVID-19) is a respiratory disease caused by the SARS-CoV-2 virus. In order to reduce the impact of COVID-19 on businesses, workers, customers and the public, the Kwazulu-Natal Department of Transport (KZNDOT), within the parameters of the COVID-19 regulatory framework, want to ensure that all those businesses, workers, customers and public it's interacting with are in compliance to the requirements as stipulated to ensure a safe work-environment for all.

On 23 April 2020, President Cyril Ramaphosa addressed the nation and announced that the country would resume economic activity in a phased approach from 1 May 2020. The lockdown levels depicted by Figure 1 below, will be lifted in phases, level 5 the highest and level 1 being the lowest as depicted below:



Figure 1: COVID-19 Alert Levels

1.1 BACKGROUND

Occupational Health and Safety are a fundamental segment of the construction industry. Safety must be embedded in all processes, implementing a top-down approach, enabling the adoption of a safe and healthy working culture by all. Individual businesses or workplaces must have COVID-19 risk assessments and prevention and mitigation plans in place, and must conduct worker education on COVID-19 and protection measures:

- Identification and protection of vulnerable employees
- Safe transport of employees
- Screening of employees on entering the workplace
- Prevention of viral spread in the workplace
- Hand sanitisers and face masks
- · Cleaning of surfaces and shared equipment
- Good ventilation
- Shift arrangements and canteen controls
- Managing sick employees

In addition to the above, monitoring systems must be in place to ensure compliance with safety protocols and to identify infections among employees.

1.2 PURPOSE

This document sets out the key principles and minimum requirements of the KZNDOT that define responsible, healthy and safe operations for road construction related operations working under COVID-19 Lockdown. The present state of the lockdown is geared toward the revival of economic activities and to allow employees involved in permitted services to resume work under certain conditions. This COVID-19 guidance has been developed on the basis of traditional infection prevention and occupational hygiene practices.

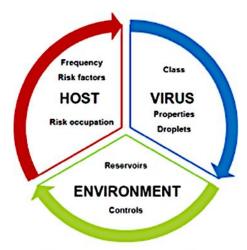
1.3 OBJECTIVES

The aims of this document are to:

- Keep workers and the wider public healthy and safe by preventing the spread of COVID-19.
- Apply relevant guidance from the Department of Health, Department of Employment and Labour and other Government Authorities to the construction environment.
- Encourage a safe and respectful work environment and good communication between all stakeholders.
- Sit alongside existing health and safety controls to ensure workers are safe on site.

Contractors and their employees should use this guidance to help identify risk levels on construction sites and to identify any appropriate control measures to be implemented. Additional guidance may be needed as the conditions of the COVID-19 outbreak change and as new information about the virus, its transmission and impact become available. It focuses on, as well as considerations for, the need for contractors to implement engineering, administrative and work practice controls and personal protective equipment (PPE).

2 RISK ASSESSMENT



Different workers have different risk exposures

The legislation governing workplaces in relation to COVID –19 is the Occupational Health and Safety Act, Act 85 of 1993, as amended, and with the Hazardous Biological Agents Regulations and the Construction Regulation 2014. Section 8(1) of the Occupational Health and Safety Act, Act 85 of 1993, as amended, requires the employer to provide and maintain a working environment that is, to the extent possible reasonably practicable, as amended. Specifically, Section 8(2)(b) requires steps that may be reasonably practicable to eliminate or mitigate any hazard or potential hazard prior to the use of personal protective equipment (PPE).

2.1 BACK TO BASICS

Risk Assessment should be done to determine the **RISK** of **EXPOSURE** and to communicate this to the **WORKERS**.

Figure 2: Risk Exposures

2.2 IMPLEMENTATION OF CONTROL MEASURES

Before the implementation of control measures, current risk assessments need to be reviewed and updated, taking into account the new hazards posed by exposure to COVID-19 in the workplace. This is in accordance with Section 8 (2) (d) of the OHS Act.

With COVID-19, it may not be possible to eliminate the hazard, the most effective protection measures are engineering controls, administrative controls, safe work practices (a type of administrative control), and Personal Protection Equipment.

Measures for protecting workers from exposure to, and infection with, SARS-CoV-2, the virus that causes Coronavirus Disease 2019 (COVID-19), depend on the type of work being performed and exposure risk, including potential for interaction with people with suspected or confirmed COVID-19 and contamination of the work environment.

Contractors should adapt infection control strategies based on a thorough hazard assessment, using appropriate combinations of engineering and administrative controls, safe work practices, and personal protective equipment (PPE) to prevent worker exposures.

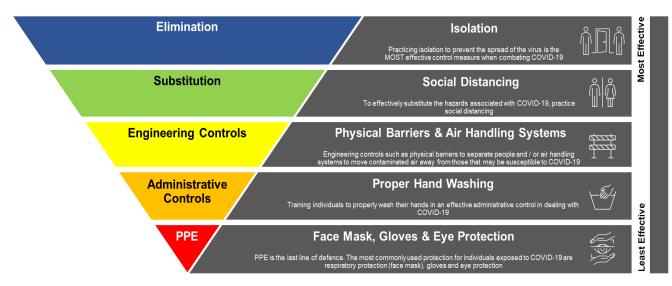


Figure 3: Infection Control Strategies

In preventing occupational exposure to COVID-19 also require Contractors to train workers on elements of infection prevention, including PPE. This would assist Contractors to identify:

- Exposure Levels
- "High Contact" Activities, and
- Vulnerable Workers and Special Measures

Contractors are expected to undertake and champion the principles of constantly focussing on eliminating or reducing the risk of COVID-19 transmission to an acceptable level, engaging meaningfully with their workforce, and making worker health a key priority. A Baseline Risk Assessment is included under Appendix D: COVID-19 Baseline Risk Assessment.

3 SITE OPERATING PROCEDURES

KZNDOT Construction sites operating during the Covid-19 pandemic need to ensure that they protect their workforce and minimise the risk of infection spread. In line with government guidelines on social distancing, this guideline is intended to implement effective steps at all KZNDOT construction sites of any size. These are extraordinary situations, and the KZNDOT intends to abide to the latest COVID-19 advice from national government.

3.1 SELF-ISOLATION

Anyone who meets one of the following criteria should not come to site:

- Has a high temperature or a new persistent cough;
- Is a vulnerable person (by virtue of their age, underlying health condition, clinical condition or pregnancy); or
- Is living with someone in self-isolation or with a vulnerable person.

3.2 IF SOMEONE FALLS ILL

If a worker develops a high temperature or a persistent cough while at work, they should:

- Return home immediately;
- Avoid touching anything; and
- Cough or sneeze into a tissue and put it in a bin, or if they do not have tissues, cough and sneeze into the crook or into the bent elbow.

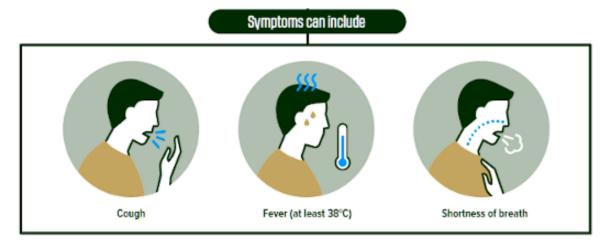


Figure 4: Symptoms of COVID-19

They must self-isolate and not return to work until their period of self-isolation has been completed and his or her negative status has been confirmed.

3.3 TRAVEL TO SITE

Wherever possible workers should travel to site alone using their own transport, and construction sites need to consider:

- Parking arrangements for additional cars, taxis, buses, etc;
- Other means of transport to avoid public transport e.g. cycling;
- They must ensure disinfecting the alternative transport before and after use; and Public Transport Regulations in respect of COVID-19 are adhered to;

- Providing hand cleaning facilities at entrances and exits. This should be soap, water and paper towels (and not fabric towels) wherever possible or hand sanitiser if water is not available; and
- How someone detected vulnerable after screening, taken ill and would get transported home.

3.4 SITE ACCESS POINTS

- Stop all non-essential visitors
- People, be it workers or visitors, without relevant face masks should not be allowed to enter construction sites; and workers should wear face masks at all times.
- Introduce staggered start and finish times to reduce congestion and contact at all times
- Monitor site access points to enable social distancing you may need to change the number of access points, either increase to reduce congestion or decrease to enable monitoring
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners
- Require all workers to wash or clean their hands before entering or leaving the site or as frequent as possible
- Allow plenty of space (two metres) between people waiting to enter site
- Regularly clean common contact surfaces in Site Office, Access Control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
- Drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.

3.5 HAND WASHING

- Provide additional hand washing facilities to the usual welfare facilities on a large spread out site or significant numbers of personnel on site
- Ensure soap, fresh water and paper towels is always readily available and kept topped up
- Provide hand sanitiser where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitiser levels
- Provide suitable and enough rubbish bins for hand paper towels with regular removal and disposal.
- Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

3.6 TOILET FACILITIES

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Wash hands before and after using the facilities
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush handles or buttons
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

3.7 CANTEENS AND EATING ARRANGEMENTS

Whilst there is a requirement for construction sites to provide a means of heating food and making hot drinks, these are exceptional circumstances and where it is not possible to introduce a means of keeping equipment clean between use, kettles, microwaves etc. must be removed from use.

The workforce should also be required to stay on site once they have entered it and not use local shops.

- Dedicated eating areas should be identified on site to reduce food waste and contamination
- Break times should always be staggered to reduce congestion and contact
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area
- The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers should sit 2 metres apart from each other whilst eating and avoid all contact
- Where catering is provided on site, it should provide pre-prepared and wrapped food only
- Crockery, eating utensils, cups etc. should not be used
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced
- Tables should be cleaned between each use
- All rubbish should be put straight in the bin and not left for someone else to clear up
- All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

3.8 CHANGING FACILITIES, SHOWERS AND DRYING ROOMS

- Always introduce staggered start and finish times to reduce congestion and contact
- Introduce enhanced cleaning of all facilities throughout the day and at the end of each day
- Consider increasing the number or size of facilities available on site if possible
- Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of 1 ½ metres
- Provide suitable and enough rubbish bins in these areas with regular removal and disposal.

3.9 AVOIDING CLOSE WORKING

There will be situations where it is not possible or safe for workers to distance themselves from each other by 1.5 metres.

3.10 GENERAL PRINCIPLES

- Non-essential physical work that requires close contact between workers should not be carried out
- Work requiring skin to skin contact should not be carried out
- Plan all other work to minimise contact between workers
- Re-usable PPE should be thoroughly cleaned after use and not shared between workers
- Single use PPE should be disposed of so that it cannot be reused
- Stairs should be used in preference to lifts or hoists
- Where lifts or hoists must be used:
 - Always lower their capacity to reduce congestion and contact
 - o Regularly clean touchpoints, doors, buttons etc.
- Increase ventilation in enclosed spaces
- Regularly clean the inside of vehicle cabs and between use by different operators.

3.11 SITE MEETINGS

- Only absolutely necessary meeting participants should attend
- Attendees should be two metres apart from each other
- Rooms should be well ventilated / windows opened to allow fresh air circulation
- Consider holding meetings in open areas where possible.

3.12 SITE MEETINGS

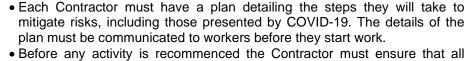
Enhanced cleaning procedures should be in place across the site, particularly in communal areas and at touch points including:

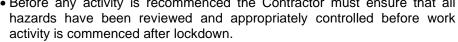
- Taps and washing facilities
- Toilet flush and seats
- Door handles and push plates
- Handrails on staircases and corridors
- Lift and hoist controls
- Machinery and equipment controls
- Food preparation and eating surfaces
- Telephone equipment
- Keyboards, photocopiers and other office equipment

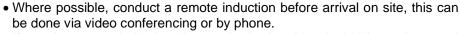
Rubbish collection and storage points should be increased and emptied regularly throughout and at the end of each day.

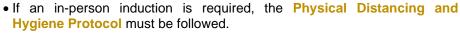
4 CONSTRUCTION PROTOCOLS

The core principle behind this "Construction Protocols" is to protect the health and safety of all workers required to perform duties during the COVID-19 crisis, including related health and safety impacts on operations related to operating under a COVID-19 environment, as well as protecting the wider KwaZulu-Natal population from transmission and spread of the virus.







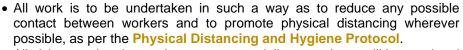


- All workers shall undergo a screening process to ensure they are fit for duty by confirming their health status.
- Contractors must understand how workers will travel to and from site and will communicate the **Site Transportation Protocol** to all.
- Ensure all workers understand when additional PPE may be required due to COVID-19 and that workers have access to the correct PPE as per the Department of Employment and Labour guidelines. When required to use face masks or gloves please follow these processes.
- Only relevant personnel to the workplace are to access the site.
- All office employees supporting a project will work remotely, where possible.
- A daily register of workers entering and leaving site must be completed along with a health declaration. Use your existing sign in register or the example Sign-in register.
- Signage reminding workers of the COVID-19 Physical Distancing and Hygiene Protocol will be posted at the site entrance and in common areas where appropriate.



Before arriving on Site





- All visitors to the site, such as necessary delivery workers, will be restricted to one person wherever possible. These workers must follow the <u>Site</u> <u>Transportation Protocol</u>.
- All offices and jobsites must implement cleaning measures as per the Cleaning Protocol.
- All tools, equipment, plant and vehicles must be used in alignment with the Cleaning Protocol.
- Toolbox talks should be held with physical distancing in place as per the Physical Distancing and Hygiene Protocol.
- Additional sanitary measures are to be implemented on site to prevent the spread of COVID-19 e.g. hand washing stations, provision of additional hand sanitizer, provision of disinfectant wiping products, as per the Physical Distancing and Hygiene Protocol.
- Smokers must follow the Physical Distancing and Hygiene Protocol.
- A COVID-19 Response plan must be available and accessible on site.





Leaving Site

- Workers must use the sign-in register to sign out.
- When returning home, workers will need to follow the necessary hygiene measures.
- Each site must be cleaned and sanitised at the end of the working day or end of each shift, as per the Cleaning Protocol.
- All waste and disposable PPE must be removed from site and securely disposed of as per the Cleaning Protocol.
- Workers must follow the Site Transportation Protocol.

4.1 PHYSICAL DISTANCING AND HYGIENE PROTOCOL

Physical distancing, also known as "social distancing", is about keeping a safe distance from others. For physical distancing, at least one and ½ metre's separation is required at work, and two metres in uncontrolled environments, like in public. This aligns with World Health Organisation advice. We expect one and ½ metre's separation between people at work as the minimum and greater separation where it is reasonably practicable to do so. This is important to help protect us from COVID-19, which spreads via droplets from coughing and sneezing.

General Working Arrangements

- Keep team sizes as small as possible.
- Keep a record of who is in each team every day as it is required to assist contact tracing.
- Site teams are encouraged to put forward split/alternating shifts to avoid extensive intermingling to reduce potential of exposure.
- Work site is always to be segregated into zones (or by other methods) as much as possible to keep different teams/trades physically separated.
- Where possible, a one-way system in high-traffic areas, such as lifts, stairwells and scaffolds (Where Applicable).
- Where practical, all office employees supporting a project, work remotely.
- When using a vehicle, the Cleaning Protocol needs to be followed.
- When using a vehicle, limit this to one/two person per vehicle if possible.

External One member of the crew nominated to receive supplies etc. Interfaces Keep the engagement with the other person as brief as possible and maintain a two-metre physical distance. Ask for paperwork to be emailed rather than handed over as much as possible. If unavoidable, then either wear gloves when handling the item or wash hands before and after handling said items. Site Entry Limit visitors to site wherever possible. Introduce staggered start and finish times where possible to reduce congestion and contact. Monitor site access points to enable physical distancing – you may need to change the number of access points, increase to reduce congestion or decrease to enable monitoring. Where entry systems that require skin contact, the Cleaning Guide must be followed. Require all workers to wash or clean their hands before entering and leaving the site. Allow plenty of space 1½ metres between people waiting to enter site. Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak flow times. Where possible, conduct a remote induction before arrival on site, this can be done via video conferencing or by phone. If an in-person induction is required, reduce the number of people and hold them outdoors wherever possible. Delivery drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials. Any sign in registers should be recorded by one person where possible do not pass material around the group and minimise contact with any screens. Site Meetings Only absolutely necessary meeting participants should attend. Attendees should be two metres apart from each other Rooms should be well ventilated / windows opened to allow fresh air circulation. Hold meetings in open areas where possible. Meetings are to be held through teleconferencing or videoconferencing where possible. **Avoiding Close** Risk assessments and method statements must be updated to include Working COVID-19 control measures. At least 11/2 metre's separation is required at work. KZNDOT expect 11/2 metre separation between people at work as the minimum and greater separation where it is reasonably practicable to do so. If it is not possible or safe for workers to distance themselves by one metre for a work activity, the works should not be carried out. Re-usable PPE should be thoroughly cleaned after use and not shared between workers. Single use PPE should be disposed of so that it cannot be reused. Stairs should be used in preference to lifts or hoists. Where lifts or hoists must be used: Lower their capacity to reduce congestion. Regularly clean touchpoints, doors, buttons etc. Increase ventilation in enclosed spaces

Toilet Facilities	 Physical distancing rules apply to the use of shared facilities, including toilets. Wash hands before and after using the facilities. Enhance the cleaning regimes for toilet facilities particularly door handles, locks, toilet flush and sanitary bins. Provide suitable and sufficient rubbish bins for hand towels with regular
	removal and disposal.
Eating Measures	 If you need to leave site for any reason, follow site entry procedures on return. Dedicated eating areas should be identified on site to reduce food waste and contamination. Break times should be staggered to reduce congestion and contact at all times. Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area. The workforce should be asked to bring pre-prepared meals and refillable drinking bottles from home. Workers should sit 2 metres apart from each other whilst eating and avoid all contact. Where catering is provided on site, it should provide pre-prepared and wrapped food only. Shared crockery, eating utensils, cups etc. should not be used. Tables should be cleaned between each use. All rubbish should be put straight in the bin and not left for someone else to clear up. All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles. Limit access and use of water fountains.
	 Consider numbers on site for site facilities as physical distancing may require additional space/facilities.
Changing Facilities, Showers and Drying Rooms	 Introduce staggered start and finish times to reduce congestion and contact at all times. Introduce enhanced cleaning of all facilities throughout the day and at the end of each day. Consider increasing the number or size of facilities available on site if possible. Based on the size of each facility, determine how many people can use it at any one time to maintain a distance of one metre. Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.
General Hygiene	 Each worker must sanitise their hands with hand sanitiser or soap and running water before entry onto site, use warm water if available. Set up a specific place near the entry of the site for handwashing and/ or sanitising. Any personal items brought to site by workers must be segregated (kept separate from other workers items). Individual PPE for workers must be kept separate from other workers PPE and cleaned correctly as per the Cleaning Protocol. All eating and drinking utensils to be cleaned by the user. Have paper towels accessible to dry.
Smoking	 Smokers/vapers must use designated area or do so off-site and butts are to be placed in the designated receptacle. Hands must be washed before and after smoking. Stand so that smoke or vapor produced is not going into another person's breathing zone.

Hand Washing

- Provide additional hand washing facilities to the usual welfare facilities on large, spread out sites or significant numbers of personnel on site.
- Ensure soap and fresh water is readily available and kept topped up at all times.
- Provide hand sanitiser where hand washing facilities are unavailable.
- Regularly clean the hand washing facilities and check soap and sanitiser levels.
- Sites will need extra supplies of soap, hand sanitiser and paper towels and these should be securely stored.

4.2 SITE TRANSPORTATION PROTOCOL



to site

Employers are required to have an understanding of how workers will travel to and from site.



Workers are to travel to the site one person per vehicle where possible.



Log is to be kept recording who has arrived on site, how they travelled and who they travelled with for contact tracing purposes.



Workers must travel home in the same vehicle as they arrived in.



Handwashing protocols to be observed before entering site.

Any travel managed by the employer should ensure that adequate steps can be achieved for this transport which includes:

Workers travel



Allowing for spaces between passengers.



Hygienic washing of hands before and after the journey.



Follow Vehicle Cleaning Procedures as per the Cleaning Protocols.



Restricting equipment and baggage to trailers and or separate parts of the vehicle.



Deliveries to site should be delivered by one person only where possible.



Handwashing protocols to be observed once arrived at site.

Deliveries to site



Sign-in register must be completed for persons delivering goods to site.



1,5 m physical distancing rules to be applied at all times.

4.3 CLEANING PROTOCOL



Construction Sites operating under Coronavirus COVID-19 Lockdown need to ensure they are protecting their workforce and minimising the risk of spread of infection.

Key Cleaning Tips

All construction sites (offices and jobsites included) should implement additional cleaning measures of common areas to help minimise the spread of COVID-19. Consider your work environment and what is frequently used and touched by workers, customers and others. The virus can be spread from person to person or by touching unclean equipment or surfaces. To stop the spread, focus efforts on cleaning areas where the virus is more likely to spread, such as the kitchen and toilet.

- Schedule regular cleaning.
- Use a suitable cleaning product.
- Use disposable cloths, if available.
- Always wear disposable gloves when cleaning. When finished, place used gloves in a rubbish bin.
- Wear disposable gloves while handling soiled items.
- Wash hands immediately after removing gloves or after handling these items.

Physical distancing should also be practiced when cleaning offices and jobsites. Refer to the **Physical Distancing and Hygiene Protocol** for more information.

Disinfecting Cleaning Aids

Cleaning aids, such as cloths or mops, must be germ-free or they'll spread germs to other surfaces. To help prevent the spread of germs:

- Use disposable cloths or paper towels when possible.
- Reusable cloths should be disinfected or washed after each use.
- Wash brushes in a dishwasher regularly or clean with detergent and warm water after each use.
- Use two buckets for mopping one for detergent and the other for rinsing.
- Mops and buckets should be cleaned and dried after each use.

Site Cleaning

Before leaving the jobsite at the end of the working day or end of each shift, wipe down any tables/surfaces with soapy water or cleaning agents where possible. All workers must be checked out of site and record kept daily.

Common touch points may include:

- All waste and disposable PPE must be securely disposed of.
- All door handles, railings and personal workstation areas are wiped down
 with a disinfectant, such as disinfectant wipes. Individuals are responsible for
 cleaning their workstation area with disinfectant wipes.
- Clean all 'high-touch' surfaces such as desks, counters, tabletops, doorknobs, bathroom fixtures, toilets, light switches, phones, and keyboards every day with antiseptic wipes or disinfectant, including bleach solutions.

Cleaning Bathrooms, Toilets and Showers

Clean toilets with a separate set of cleaning equipment (disposable cleaning cloths, mops, etc).

Clean sinks frequently if they're used regularly. If your jobsite has a shower:

- Clean shower trays frequently, if used regularly.
- If a shower has not been used for a while, let it run with hot water before using it.
- Keep tiles and grout in good condition.
- Clean shower curtains frequently. Common toilet touch points may include:
- Keep the U-bend and toilet bowl clean by flushing after each use.
- Limescale should be regularly removed using a descaling product.
- Keep the toilet seat, handle and rim clean by using a disinfectant.

Cleaning Tools and Equipment

- Clean tools and equipment before and after each day's work with a disinfectant, concentrating on points of contact such as handles.
- Wash your hands after handling tools and equipment to prevent the spread of germs.
- If possible, don't share tools on-site. If sharing cannot be prevented, take precautions and follow the hand washing guide before and after each use.

Cleaning Vehicles

- Have dedicated drivers when using vehicles to avoid the spread of germs.
- Don't share vehicles if possible, if you need to use a shared vehicle then
 wipe down the common touched areas of the vehicle after each use (steering
 wheel, handbrake, gear stick, dashboard, handles, etc) and wash hands
 before and after using the vehicle.
- Wipe down the inside and common touched areas of the vehicle before and after each day.
- Have one person per vehicle where possible. If you are required to have more than one person then keep as much distance between people as possible, open the windows to keep air circulating and passengers to face towards the window to reduce the spread of germs.
- If you need to have multiple people in a vehicle, then where possible, split teams into groups and stay in those groups when you travel together.

Cleaning PPE

- Work clothes to be placed in washing machines and clean reusable PPE.
- Read and follow directions on the labels of laundry or clothing and detergent.
 In general, wash and dry laundry and clothing with the warmest temperatures recommended on the label.
- When handling soiled laundry wash your hands afterwards. All clothes and towels should be washed with a laundry product to prevent germs from spreading.
- Don't leave laundry in the washing machine any remaining germs can multiply rapidly.

Specialist Clean

- If a worker is unwell and removed from site, a specialist clean will be completed in the area/ areas identified where the worker was working and has accessed. These areas are to be isolated until a specialist clean has taken place.
- All equipment and vehicles used must be cleaned down and disinfected, concentrating on points of contact such as handles, steering wheels etc.

4.4 SCREENING AND MONITORING PROTOCOL

Construction Sites operating under Coronavirus COVID-19 Lockdown need to ensure they are protecting their workforce and minimising the risk of spread of infection. Screening is a method to assess the possibility of employees and visitors who may have symptoms or have been infected with COVID-19. Rigid screening of employees must take place every day before they enter the workplace. This will be the most effective way to control the spread of the virus within the workplace.

Employees should be screened for COVID-19 related symptoms and report such symptoms to a designated person and / or occupational health practitioner prior to entry into the workplace or work area in order for a decision to be made as to the staff member's continued attendance at work.

During Screening

- At the start of a workday/shift and prior to ending the workday/shift, designated persons and / or occupational health practitioner must check with employees whether they have experienced sudden onset of any of the following symptoms: cough, shortness of breath or fever/chills(or ≥ 38°C measured temperature if this is available at the worksite), in the past 24 hours as outlined in *Daily Symptom Monitoring Tool*.
- If an employee reports any of the above-mentioned symptoms, they should immediately be provided with a FFP1 surgical mask and referred to the designated staff at the workplace so that arrangements can be made for COVID-19 testing at the closest testing centre.
- If employee report any additional symptoms as outlined in the symptom monitoring sheet, s/he should be provided with a surgical mask and referred to the occupational health clinic, family practitioner or primary care clinic for further clinical evaluation and requirement for COVID-19 testing if indicated.
- On receiving their results, the employee and/or health professional supporting the employee should notify their workplace so that the employee is managed accordingly. The workplace should proactively take steps to obtain this information to avoid any delays in reporting.

After isolation or quarantine period

- Undergo medical evaluation to confirm that they are fit to work
- Wearing of surgical masks at all times while at work for a period of 21 days from the initial test
- Implement social distancing measures as appropriate (in the case of health workers avoiding contact with severely immunocompromised patients)
- Adherence to hand hygiene, respiratory hygiene, and cough etiquette
- Continued self-monitoring for symptoms, and seek medical re-evaluation if respiratory symptoms recur or worsen

[&]quot;Appendix C: COVID-19 Daily Symptom Monitoring Tool" is a monitoring Tool to track construction workers on a daily basis for two weeks.

ACRONYMS

PPE	Personal Protective Equipment
WHO	World Health Organization
NICD	National Institute of Communicable Diseases
RR	Residual Risk
OHSA	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

KEY TERMS & DEFINITIONS

Contractor	Is defined as a person or company that arranges to supply materials or workers for building or for moving goods.
Extremely Vulnerable Persons	Defined as someone who is solid organ transplant recipients; people with specific cancers: people with cancer who are undergoing active chemotherapy or radical radiotherapy for lung cancer; people with cancers of the blood or bone marrow such as leukaemia, lymphoma or myeloma who are at any stage of treatment; people having immunotherapy or other continuing antibody treatments for cancer; people having other targeted cancer treatments which can affect the immune system, such as protein kinase inhibitors or PARP inhibitors; people who have had bone marrow or stem cell transplants in the last 6 months, or who are still taking immunosuppressive drugs; People with severe respiratory conditions including all cystic fibrosis, severe asthma and severe COPD; People with rare diseases and inborn errors of metabolism that significantly increase the risk of infections (such as SCID, homozygous sickle cell); People on immunosuppression therapies sufficient to significantly increase risk of infection; Women who are pregnant with significant heart disease, congenital or acquired.)
Physical	Physical distancing, also known as "social distancing", is about keeping a safe distance
Distancing	from others.
Safe Work	Safe work practices are types of administrative controls that include procedures for safe and
Practices	proper work used to reduce the duration, frequency, or intensity of exposure to a hazard.
Screening	Screening is a way for health workers to find out if you may have COVID-19 or not. The health worker will ask you questions and scan your forehead to take your temperature.
Workplace	Workplace means any premises or place where a person performs work.

APPENDIX A: SAFE PRACTICES ON SITE

Using Face Masks on Site



Wash Hands First Always make sure you wash your hands thoroughly before and after touching a mask.



Masks

There are many kinds of masks, depending on the task.



The Right Side

There is a metal clip at the top of the mask.



Placement

Place the metal clip across the top of your nose.



Attach the Mask Attach the mask by pulling the elastic bands over your ears.



Stretch Down Stretch the mask down, so that it covers your chin.



Adjust

Bend the metal clip around your nose so that it sits securely.



Taking off the Mask Pull the elastic bands away from your ears.



Disposal

Always place the used mask in a closed rubbish bin for secure disposal.

Using Face Masks on Site



Any time you are completing a manual task

Use your usual work safety gloves



If you are cleaning any surfaces

Use disposable gloves for this and throw them in the bin when you finish cleaning



Avoid touching your face while wearing gloves



Remove your gloves and then wash your hands prior to eating, drinking or smoking/vaping



Practice good hand hygiene and good cough and sneeze etiquette while wearing gloves

APPENDIX B: SUSPECTED OR CONFIRMED CASE OF COVID-19

If the suspected or confirmed case of COVID-19 is at work



Isolate

Isolate the person from others and provide a disposable surgical mask, if available, for the person to wear.



Inform

Call (Insert No). Follow the advice of health officials.



Transport

Ensure the person has transport to their home or to a medical facility



Clean

Clean the area where the person was working and all places they have been. This may mean evacuating those areas. Use PPE when cleaning. Identify who at the workplace had close contact with the infected person in the 24 hours before that infected person started showing symptoms. Send those people home to isolate. Allow employees to raise concerns



Clean

Identify



Review

person in the 24 hours before that infected person started showing symptoms. Send those people home to isolate. Allow employees to raise concerns. Clean the area where the person was working and all places they have been. This may mean evacuating those areas. Use PPE when cleaning. Review risk management controls relating to COVID-19 and review whether work may need to change. Keep employees up to date on what is happening.

If the suspected or confirmed case of COVID-19 is not at work when diagnosed



Inform

Call (Insert No). Follow the advice of health officials.



Identify

Identify who at the workplace had close contact with the infected person in the 24 hours before that infected person started showing symptoms. Send those people home to isolate. Allow employees to raise concerns. Clean the area where the



Clean

Allow employees to raise concerns.
Clean the area where the person was working and all places they have been.
This may mean evacuating those areas.
Use PPE when cleaning.



Review

Review risk management controls relating to COVID-19 and review whether work may need to change. Keep employees up to date on what is happening.

APPENDIX C: COVID-19 DAILY SYMPTOM MONITORING TOOL



COVID-19 DAILY SYMPTOM MONITORING TOOL

Details of Worker						ı	Details of Pers	son completin	g this form	Date com	pleting	DD/MN	VI/YYYY				
Identifier	Date of contact	DD/MM/YYYY	Place last contact	:		Sur	name			Name							
Surname		Name	:			Rol	e			Facility no	ame						
Date of birth	DD/MM/YYYY	Age (Y)	Sex	M 🗆 F 🗌		Em	ail address			Telephon	e number			l			
Healthcare Y C	N ☐ If yes, f	acility name				Nex	kt of kin detai	İls		•				I			
Contact number(s)	nber(s) surname number																
Physical address	hysical address																
House number		Street				Suk	ourb			Town							
District		Province				Pat	ient traced	Y N				•					
Details of confirmed C	OVID-19 case (Com	— plete only if Appli	cable														
	se Casual C	Relationship				Na	-		name			of Birth DD/N					
nstructions for con mmediate arranger				-								-	-				
exposure to case.	ments for the co	mection of a co	ombined na	soprial yrige	ear and orog	orial yrigear	swab. Kele	I to COVID-	19 Quick Gi	uide on the	MICD Webs	ite ioi auui	tional detai	is. Days p			
DAY			3	4	5	6	7	8	9	10	- 44	12	42	- 10			
Date (DD/MM)	1	2	3	4	5	0	,		9	10	11	12	13	14			
	tamn																
Measured body t	-																
Chills	□Y □		□Y□N	□Y□N	□Y □ N	□Y □ N	□Y□N	□Y □ N	□Y □ N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N			
Cough	□Y□	N N N	□Y□N	□Y □ N	□Y □ N	□Y□N	□Y □ N	□Y □ N	□Y □ N	□Y□N	□Y□N	□Y □ N	□Y □ N				
Sore throat	□Y□	N Y N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y □ N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N				
Shortness of bre	ath Y	N Y N	□Y□N	□Y□N	□Y □ N	□Y□N	□Y□N	□Y □ N	□Y □ N	□Y□N	□Y□N	□Y □ N	□Y □ N				
Myalgia/body pa	ains 🔲 Y 🗀	N Y N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N				
Diarrhoea ³	□Y□	N N N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N	□Y□N			

¹ Close contact: A person having had face-to-face contact (≤2 metres) or was in a closed environment with a COVID-19 case; this includes, amongst others, all persons living in the same household as a COVID-19 case and, people working closely in the same environment as a case. A healthcare worker or other person providing direct care for a COVID-19 case, while not wearing recommended personal protective equipment or PPE (e.g., gowns, gloves, NIOSH-certified disposable N95 respirator, eye protection). A contact in an aircraft sitting within two seats (in any direction) of the COVID-19 case, travel companions or persons providing care, and crew members serving in the section of the aircraft where the index case was seated. Casual contact: Anyone not meeting the definition for a close contact but with possible exposure. ² Chose from: Spouse, Aunt, Child, Class mate, Colleague, Cousin, Father, Friend, Grandfather, Grandforther, Healthcare worker taking care of, Mother, Nephew, Niece, Other relative, Uncle. ³ Diarrhoea defined as three or more loose stools in a 24-hour period.

APPENDIX D: COVID-19 BASELINE RISK ASSESSMENT

								1	Likel	ihood		
							Very Unlikely	Unlikely	Po	ssible	Likely	Very Likely
						Negligible	1	2		3	4	5
					ity	Minor	2	4	6		8	10
					Severity	Moderate	3	6		9	12	15
					Se	Major	4	8		12	16	20
						Extreme	5	10		15	20	25
Hazard	L	S	Risk	Control Measures					L :	S RR	Persons a	
Exposure from others due to: 1. Living with someone with a confirmed case of COVID-19. 2. Have come into close contact (within 2 metres for 15 minutes or more) with a confirmed case of COVID-19. 3. Being advised by a public health authority that contact with a diagnosed case has occurred.				 To follow government action of selfollowing circumstances: for media supplies; for exercise once per day deemed 'key workers' Any existing individual risk assessing expectant mothers) to be reviewed Maintain contact with line manager follow company policy / guidance. Travel is only required for essentiate public transport and to implement clearance from persons and not to immediate family) To continue following ongoing governed Stay at home and only attend hose surgery and phone (Insert No) if further Company to ensure extremely vulne following their specific medical adviced Always follow good hygiene measured Avoid all visitors to your home unlessed Do not approach delivery staff, allow Do not take any antibiotics as they designed the surgery and phone the surgery staff, allow the property of the surgery staff, allow the property of the surgery staff, allow the property of the surgery staff, allow the surgery and phone the surgery staff, allow the surgery staff. 	ments ment Il travel travel pital her ad rable e issues they pack	eason; to shop d for essential s (disability, you and Human R rel; reduce the cial distancing in groups of m t guidance in an emergen vice is required persons are sh ed to them no la are providing a ages to be left of	p for neces works including person esources (amount of where person than 2 cy. Do not ielding them attent than 2 cy. Impedical reson the doors	essary food uding those as or new / HR) and to time using assible (2m unless it is attend GP aselves and a/3/2020 equirement			Individual	Workers

Negligible 1 2 3 4 5						7		Likelihood Very										
Minor 2 4 6 8 10									Unlikely	Р	ossi	ible	Likely					
Moderate 3 G 9 12 15							Negligible	1	2	3			4	5				
Hazard L S Risk Control Measures L S RR Persons at Risk						<u>₹</u>	Minor	2	4		6		8	10				
Hazard L S Risk Control Measures L S RR Persons at Risk						Ver	Moderate	3	6		9		12	15				
Source Control Measures If a worker develops a high temperature or a persistent cough while at work, they should: 1.						Se	Major	4	8		12	2	16	20				
Suspected case whilst working on site If a worker develops a high temperature or a persistent cough while at work, they should: 1. Return home immediately 2. Avoid touching anything 3. Cough or sneeze into a tissue and put it in a bin, or if they do not have tissues, cough and sneeze into the crook of their elbow. 4. They must then follow the guidance on self-isolation and not return to work until their period of self-isolation has been completed. General travel including foreign travel 2. Where an individual has recently visited these countries, they should self / home isolate themselves until further notice from the government (lockdown measures continue to apply) 3. Please continue to follow any further national government advice provided 4. Where an occupational health (OH) service provider has been appointed, please seek additional advice or concerns through this service 5. All persons to limit their use of public transport. Where travel is essential, please use private single occupancy where possible Access / egress to site Where possible, please consider and implement the following practices: 1. Stop all non-essential visitors 2. Introduce staggered start and finish times to reduce congestion and contact at all times 3. Monitor site access points to enable social distancing – you may need to change the number of access points, either increase to reduce congestion or decrease to enable monitoring 4. Remove or disable entry systems that require skin contact e.g. fingerprint scanners 5. Require all workers to wash or clean their hands before entering or leaving the							Extreme	5	10		15	5	20	25				
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						Extreme	5	10		15		20	25		
Hazard	L	S	Risk	Control Measures			•	•	L	S	RR	Persons a	at Risk		
				 6. Allow plenty of space (two metres) b 7. Regularly clean common contact s and delivery areas e.g. scanners desks, particularly during peak flow t 8. Reduce the number of people in a holding them outdoors wherever pos 9. Drivers should remain in their vehic clean their hands before unloading g 	urface turn imes attend sible es if	es in reception, stiles, screens lance at site in the load will allo	office, acc , telephone	cess control e handsets, nd consider							
Inclement weather – cold temperature allows disease to survive				 Welfare facilities provided to shelter Maintain good hygiene measures at Appropriate respiratory protective edlast resort however face fit test (leffectiveness. It is advised to spea matters and supplies should be remainded. 	Welfare facilities provided to shelter from the elements Maintain good hygiene measures at all times										
Poor hygiene				 Wash your hands thoroughly and reseconds. Use alcohol-based hand and hand washing technique to be a 2. Avoid touching your face/eyes/nose/cough or sneeze with a tissue then t Provide additional hand washing factorized out site or significant number Regularly clean the hand washing factorized suitable and sufficient rubbit and disposal. Sites will need extra supplies of sthese should be securely stored. 	sanitis dopte mouth nrow ilities s of p cilities sh bin	ser if soap and ad as directed in with unwashed it in the bin. It to the usual we ersonnel on sites and check soas for hand towe	water is not hands and elfare facilities ap and sanitels with regular	ot available d cover your es if a large tiser levels ular removal				Individual	workers		

							Likelihood									
							Very Unlikely	Unlikely	Р	ossi	ble	Likely	Very Likely			
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					Se	Major	4	8		12		16	20			
						Extreme	5	10		15		20	25			
Hazard	L	S	Risk	Control Measures	•				L	S	RR	Persons a	at Risk			
Canteen - exposure				the cleaning regimes for toilet facilit toilet flush. Portable toilets should be use these should be cleaned and em 1. The workforce should also be required.	Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant. Wash hands before and after using the facilities. Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush. Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently. The workforce should also be required to stay on site once they have entered it Individual W											
from large numbers of persons				 and not use local shops. Dedicated eating areas should be incontamination Break times should be staggered to it. Hand cleaning facilities or hand san any room where people eat and should leaving the area The workforce should be asked to drinking bottles from home Workers should sit 2 metres apart incontact Where catering is provided on site, it food only - Payments should be tall and Crockery, eating utensils, cups of the should be provided with mechanism introduced Tables should be cleaned between eating must be the and shift, including chairs, door like devices. 	reducitiser ould be bring from the shocken be	e congestion an should be availate used by working pre-prepared each other while uld provide pre-by contactless conculd not be used thanced cleanings and not left for ghly cleaned at	ad contact a able at the ers when ed d meals and st eating a prepared a ard whereved and measure	at all times entrance of entering and and refillable and avoid all and wrapped are possible as of the tap else to clear each break								

									Lik	elih	ood				
							Very Unlikely	Unlikely	Р	oss	ible	Likely	Very Likely		
						Negligible	1	2		3		4	5		
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					Severity	Moderate	3	6		9		12	15		
					Se	Major 4 8 12 16									
						Extreme	5	10	20	25					
Hazard	L	S	Risk	Control Measures					L	S	RR	Persons	at Risk		
Use of Changing facilities, showers and drying rooms				all times 2. Introduce enhanced cleaning of all teach day 3. Consider increasing the number or a large day and the size of each facility, of one time to maintain a distance of the size o	Introduce staggered start and finish times to reduce congestion and contact at all times Introduce enhanced cleaning of all facilities throughout the day and at the end of										