



Ref. No.: T 8/3/12-2025 / MN74-2025 Addendum No.1  
Client Ref. No.: T 8/3/12-2025 / MN74-2025

19 May 2025

**ATTENTION : ALL TENDERERS**

Dear Tenderer/s

**TENDER T 8/3/12-2025 / MN74-2025 REPLACEMENT OF EXISTING SEWER RETICULATION IN PORT OWEN, VELDDRIF: ADDENDUM TO TENDER No.1**

This "Addendum to Tender" is an addendum to the tender documents. Any tender submitted will be deemed to have taken the following instructions into account.

1. Extension to Tender Closing Date

Description	Change
Extension of Tender Closing Date	The original closing date of tender T 8/3/12-2025 / MN74-2025 was 21 May 2025 at 12:00 and it has now been extended to:  <b><u>26 May 2025 at 12:00</u></b>  No late tenders will be accepted.

2. C2.2 Bill of Quantities

A revised Bill of Quantities has been produced with the following changes to be taken into account.

- Item A.15 "*Contractual Requirements*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.16 "*Offices: 1 rooms, etc., as for item A.2*", Changed unit from Days to Month.
- Item A.17 "*Survey assistants and material*", Changed unit from Days to Month.
- Item A.18 "*Offices and storage sheds*" Rate of 158.00 has been removed, Bidder should provide the tendered rate. Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.19 "*Workshops*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.20 "*Ablution and latrine facilities*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.21 "*Tools and equipment*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.22 "*Water supplies, electric power and communications*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.23 "*Dealing with water (Subclause 5.5)*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.24 "*Access (Subclause 5.8)*", Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.25 "*Supervision*", Changed "UNIT" from "Days" to "Month" changed "QTY" from



DIRECTORS  
PARTNERS

OFFICES  
REG. NO.

GJ TUCKER (MANAGING) T PATHER (CHAIRPERSON) CJ BRINK JT LOCHNER  
CJ BRINK PL DALLAS J DUVENHAGE JT LOCHNER B MALITI LS MHLAULI NP RITSCH GJ TUCKER

EAST LONDON CAPE TOWN DURBAN GEORGE GQEBERHA (PORT ELIZABETH) JOHANNESBURG KOMANI (QUEENSTOWN)  
2000/006344/07



50.000 to 3.000

- Item A.26 *"Company and head office overhead costs"*, Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.27 *"Other time-related obligations"*, Changed "UNIT" from "Days" to "Month"
- Item A.28 *"Time-related costs for special non-working days (Prov)"*, Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.29 *"On-going compliance with Occupational Health and Safety requirements"*, Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.30 *"On-going compliance with Environmental requirements"*, Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000
- Item A.33 *"Employment of Community Liaison Officer for the duration of construction"* Changed "UNIT" from "Days" to "Month" changed "QTY" from 50.000 to 3.000, Removed "Rate" of 500.00 and removed "Amount R" 25,000.00
- Item A 34: *"Mark-up on item A.33 for Contractor's overheads, charges and profit (state % and extend as an amount)"*, Removed "QTY" of 25,000.00
- Removed Brought forward amount of 0.00 from Page 112-2, Bidder should calculate and transfer the total carried forward from Page 112-2 to the Brought Forward cell on page 112-3 from his own calculations.
- Item B.7 *"i) Up to 100 mm thick concrete"*, Increased QTY from 20.000 to 40.000
- Item B.10 *"b) Brick paved / Interlocking bricks in roads, driveways or walkways"*, Increased QTY from 180.000 to 200.000
- Item B.11 *"c) Grass and lawns"*, Increased QTY from 180.000 to 200.000
- Item C.32 *"i) Concrete (75 mm thick, 25 MPa on 100 mm G5 gravel Subbase compacted to 95% MOD. AASHTO density on sidewalks and driveways)"*, Increased QTY from 20.000 to 40.000
- Item E.4 *"b) 160 mm"*, Changed QTY from 10.000 to 0.000 and changed blank Amount R to "Rate Only"
- Item E.11 *"a) Launch and retrieval pits"*, Removed Unit and QTY. Added depth Range "i) Up to 1m depth" with a "Unit" of "No". and "QTY" of "4.000" and "ii) 1m to 2m depth" with a "Unit" of "No". and "QTY" of "16.000" and "iii) 2m to 3m depth" with a "Unit" of "No". and "QTY" of "10.000"
- Item E.12 *"b) Access pit"*, Removed Unit and QTY. Added depth Range "i) Up to 1m depth" with a "Unit" of "No". and "QTY" of "2.000" and "ii) 1m to 2m depth" with a "Unit" of "No". and "QTY" of "4.000" and "iii) 2m to 3m depth" with a "Unit" of "No". and "QTY" of "4.000"
- Item E.13 *"c) Lateral connection pit"*, Removed Unit and QTY. Added depth Range "i) Up to 1m depth" with a "Unit" of "No". and "QTY" of "10.000" and "ii) 1m to 2m depth" with a "Unit" of "No". and "QTY" of "30.000" and "iii) 2m to 3m depth" with a "Unit" of "No". and "QTY" of "7.000"
- Schedule F, Item No H.1 and H.2, Changed Item No H.1 to F.1 and Changed Item No H.2 to F.2
- C2.3 SUMMARY PAGE OF BILL OF QUANTITIES, *"PROVISION FOR 15.5% VALUE ADDED TAX (ON TOTAL)"*, Changed to PROVISION FOR 15% VALUE ADDED TAX (ON TOTAL)

### 3. Tender Document

The Tenderers are to take note that the Closing date for the Tender is 26 May 2025 and replaces the date indicated on the following pages:

- Volume 1 of 2
  - Page 1 of 114, Closing Date 26 May 2025
  - Page 5 of 114, Closing Date 26 May 2025
  - Page 8 of 114, Closing Date 26 May 2025
  - Page 50 of 114, Closing Date 26 May 2025

- Volume 2 of 2
  - Page 1 of 98, Closing Date 26 May 2025
- T.1.3: TENDERER'S OBLIGATIONS FOR ELIGIBILITY

Tenderers are to replace the Criterion 3 table of Key Staff & Personnel allocated / reserved for this Tender as follows:

Site Staff & Personnel Required:	Name of Staff member
<p><b>Contract Manager / Site Agent</b> (min 16 hours / 2 days per week)</p> <ul style="list-style-type: none"> <li>• Must be suitably skilled and have CV verifiable experience managing Civil projects. Is overall responsible for the execution of the works and all associated project management</li> <li>• Must manage all Municipal instructions and ensure execution of Tender specifications. Must inspect and approve all works. manage Payment Certificates</li> <li>• Must be computer literate, compile admin reports, proficient in the use of Excel Spread Sheets, capture data and quantities, daily communication electronically via email etc.</li> </ul>	
<p><b>General Foreman: Construction Manager &amp; Supervisor</b> (min 40 hours / 5 days per week / full time on site)</p> <ul style="list-style-type: none"> <li>• Must be suitably skilled and have CV verifiable experience as foreman on Civil projects.</li> <li>• Must supervise the works full-time on site, the team / the workers and the correct use of all plant/machinery.</li> <li>• Must be able to work with local labour.</li> <li>• Must ensure that all Codes &amp; Standards specifications are met and carried out.</li> <li>• Must be able to do setting-out &amp; levelling</li> </ul>	
<p><b>Skilled Artisan / Paving specialist</b> (min 40 hours / 5 days per week / full time on site)</p> <ul style="list-style-type: none"> <li>• Must be suitably skilled and have CV verifiable experience working with segmented paving, concrete and sewers on Civil projects.</li> <li>• Must be able to do setting-out &amp; levelling of pavers to obtain accurate and uniform finishes.</li> <li>• Must be able to supervise the paving construction teams and instruct corrective action. And also applies to sewer works.</li> </ul>	

Site Staff & Personnel Required:	Name of Staff member
<b>Health and Safety Officer</b> <b>(min 40 hours / 5 days per week / full time on site)</b> <ul style="list-style-type: none"> <li>Must be suitably skilled and have CV verifiable experience and qualifications for the role.</li> </ul>	

- C1.2: CONTRACT DATA (PART 1), PART 1: CONTRACT SPECIFIC DATA PROVIDED BY THE EMPLOYER
  - Add the following Clause/s:

Clause	Description / Wording
3.2.3	<p>The Employers Agent shall obtain specific approval from the Employer before carrying out any of his functions or duties according to the following clauses of the General Conditions of Contract (GCC) 2015:</p> <p>Clauses 5.11 &amp; 10.1      The issuing of an order to suspend the progress of the Works, the extra cost resulting from which order is to be borne by the Employer in terms of Clause 5.11 or the effect of which is liable to give rise to a claim by the Contractor for an extension of time under Clause 10.1 of these conditions.</p> <p>Clauses 6.4 &amp; 6.11      The issuing of an instruction or order to vary the nature or quantity of the Works in terms of Clause 6.3, the estimated effect of which will be to increase the Contract Price by an amount exceeding R50 000, the valuation of all variation orders in terms of Clause 6.4 and the adjustment of the sum(s) tendered for General Items in terms of Clause 6.11.</p> <p>Clauses 10.1      The approval of any claim submitted by the Contractor.</p>

- Amend the following Clause/s:

Clause	Description / Wording
1.1.1.14	The time for achieving practical completion is <b><u>3 Months</u></b>
5.12.5	<p><u>Add the following new clause:</u></p> <p><b>Extension of time due to Abnormal Rainfall</b></p> <p>Extension of time for Practical Completion of the Contract in the event of abnormal rainfall shall only be allowed in accordance with the following formula. No additional extension of Time for Practical Completion caused by abnormal climatic conditions will be allowed, irrespective of the cause thereof or the effect it may have on the execution of the Works:</p>

$$V = (N_w - N_n) + (R_w - R_n)/20$$

Where:

$V$  = Extension of time in calendar days for the calendar month under consideration

$N_w$  = Actual number of days during the calendar month under consideration on which a rainfall of 10mm and more is recorded

$R_w$  = Actual total rainfall in mm recorded during the calendar month under consideration

$N_n$  = Average number of days, derived from rainfall records, on which a rainfall of 10mm and more was recorded during the relevant calendar month as per the data tabulated hereinafter

$R_n$  = Average total rainfall in mm for the relevant calendar month, derived from rainfall records, as tabulated hereinafter

Where the extension of time due to abnormal rainfall has to be calculated for portion of a calendar month, pro rata values shall be used. Should  $V$  be negative for any particular month, and should its absolute value exceed the corresponding value of  $N_n$ , then  $V$  shall be taken as being equal to minus  $N_n$ . The total extension of time to be granted shall be the algebraic sum of all the monthly extensions, provided that if this total is negative then the time for completion shall not be reduced due to subnormal rainfall.

Rainfall records for the period of construction shall be taken on Site. The Contractor shall provide and install all the necessary equipment for accurately measuring the rainfall. The Contractor shall also provide, erect and maintain a security fence plus gate, padlock and keys at each measuring station, all at his own cost. The Employer's Agent or his Representative shall take and record the daily rainfall readings. The Contractor shall be permitted to attend these readings, in the company of the Employer's Agent's Representative. Access to the measuring gauge(s) shall at all times be under the Employer's Agent's control.

The following values of  $N_n$  and  $R_n$  shall apply:

Month	R <sub>n</sub> (mm)	N <sub>n</sub> (days)
January	10	2
February	8	2
March	10	2
April	18	2
May	32	2
June	54	5
July	48	6
August	43	4
September	28	3
October	17	2
November	12	2
December	11	2
<b>Totals</b>	<b>293</b>	<b>34</b>

The time period specified as the time for completion includes allowances for those days on which it is expected that work, on the critical path items of the works, would be prevented due to abnormal climatic conditions such as wind, rain or the subsequent waterlogged conditions.

The Employers Agent shall upon considering all the relevant factors determine the extension of time to be granted on the basis that an extension of time to the contract will only be granted if the total number of days upon which work on the critical path was prevented exceeds the total number of days calculated in terms of the above allowance and considering the official contract period as a whole.

- C1.2: CONTRACT DATA (PART 1), PART 2: CONTRACT DATA (TO BE COMPLETED BY THE CONTRACTOR)
  - Omit the following Clause/s:

Clause	Description / Wording
1.1.1.14	The time for achieving Practical Completion is ..... <b>Weeks (Tenderer to indicate)</b> , inclusive of the 28 day period referred to in Clause 5.3.2, and inclusive of non-working days referred to in Clause 5.8.1, but exclusive of special non-working days (Clause 5.8.1). The operation and maintenance section of the works will commence at practical completion and will run continuously for a period of 12 months where after the Works have been handed over to the end user.

- Amend the following Clause/s:
  - C3.4.7 UTILIZATION OF THE RESOURCES OF THE LOCAL COMMUNITY (TO BE READ IN CONJUNCTION WITH SUBCLAUSE C3.4.9)
  - C3.4.7.3 REMUNERATION

Omit:

~~All local labour employed shall be paid in accordance with the latest approved SAFCEC rates but shall not be lower than the following minimum EPWP daily rates (based on an 8-hour day) as accepted by the Bergvliet Municipality.~~

Rates applicable from ..... Rates to be finally confirmed with Municipality (TBC)		
Unskilled Workers / General Labour	R 230.32	R 28.79
Semi-skilled workers	R 344.00	R 43.00 (TBC)
Skilled Workers / CLO	R 456.00	R 57.00 (TBC)

Replace:

“All local labour shall be remunerated in full compliance with the latest applicable South African labour legislation, including but not limited to the National Minimum Wage Act, the Expanded Public Works Programme (EPWP) guidelines, and any relevant sectoral determinations or bargaining council agreements. Tenderers are required to ensure that all wages paid meet or exceed the current legal minimum wage rates applicable at the time of employment. It is the tenderer's responsibility to regularly verify and adhere to any updates or changes in the minimum wage legislation throughout the duration of the contract.”

- C3.4.8 TERMS OF REFERENCE FOR THE COMMUNITY LIAISON OFFICER (CLO)
- C3.4.8.2 REMUNERATION

Omit:

~~The CLO employed on the construction contract shall be paid in accordance with the following EPWP daily rates (based on an 8-hour day) as accepted by the Bergrivier Municipality.~~

Rates applicable from ..... Rates to be finally confirmed with Municipality (TBC)		
Skilled Workers / CLO	R 456.00	R 57.00 (TBC)

Replace:

“All local labour shall be remunerated in full compliance with the latest applicable South African labour legislation, including but not limited to the National Minimum Wage Act, the Expanded Public Works Programme (EPWP) guidelines, and any relevant sectoral determinations or bargaining council agreements. Tenderers are required to ensure that all wages paid meet or exceed the current legal minimum wage rates applicable at the time of employment. It is the tenderer's responsibility to regularly verify and adhere to any updates or changes in the minimum wage legislation throughout the duration of the contract.”

- PSLQ REHABILITATION / REPLACEMENT OF WATER PIPES AND SEWERS BY TRENCHLESS METHODS
- PSLQ 8.2.3 POINT REPAIRS, The specification is to be altered as follows in “RED”
  - If an obstruction or defect is encountered which cannot be removed using trenchless technologies and would preclude the proper installation and/or compromise the long-term performance of the relining-system, it shall be pointed out to the Engineer. The Engineer may instruct the Contractor to excavate down from the surface and remove the obstruction and repair the pipe. After the repair the trench shall be backfilled and the road reinstated according to the specification given by the Engineer in this document. The Contractor shall provide all equipment and labour required for the dewatering of the excavation and the temporary diversion of sewage flows in accordance with Section PSLQ 8.2.7 of this specification. The work involved with the point repair shall be in accordance with the SANS 1200 specifications and will be measured and paid separately. The rate shall include all items listed in PSLQ

8.1, as well as excavation, shoring (unless specifically itemized elsewhere in the Bill of Quantities), stockpiling, breaking and removing the existing pipe, laying, bedding and joining the short new length of pipe, backfilling, compaction and reinstatement. The unit of measurement shall be the number of point repairs.

- PSLQ 8.2.6 EXCAVATION FOR LAUNCH, RETRIEVAL, ACCESS AND LATERAL PITS, The specification is to be altered as follows in "RED"
  - The rate shall include all items listed in PSLQ 8.1, as well as clearance of the site, excavation, shoring (unless specifically itemized elsewhere in the Bill of Quantities), stockpiling and maintenance of excavated material, backfilling, compaction and reinstatement. Extra over items will be scheduled separately for excavation in rock. The unit of measurement shall be the number of pits of each type and depth stated

#### 4. Additional information

Appendix B contains additional information for the Bidder in terms of as-built information for the section of sewer earmarked for replacement.


All Bidders are required to acknowledge receipt of this Addendum No.1 by duly signing the acknowledgement receipt slip below and returning the same by e-mail to [f.cronie@lukhozi.co.za](mailto:f.cronie@lukhozi.co.za) and complete the relevant sections of Returnable Documents i.e "T2.2.12 Record of Addenda to Tender Documents" in the tender document as issued. Please note that a copy of this addendum and acknowledgement must also be submitted with your tender.

Yours faithfully

  
**F. CRONJE Pr Tech Eng**  
**PROFESSIONAL ENGINEERING TECHNOLOGIST**  
for **LUKHOZI CONSULTING ENGINEERS (PTY) LTD**

#### MUNICIPAL APPROVAL OF ADDENDUM FOR BERGRIVIER MUNICIPALITY

NAME / SIGNATURE:

 P.W. Erasmus

DESIGNATION:

CHIEF FINANCIAL OFFICER

DATE:

20/05/2025

Copy by email :

Mr. A. Petersen ..... Bergrivier Municipality  
Mr. C. Julius ..... Bergrivier Municipality (SCM representative)



## **APPENDIX: BILL OF QUANTITIES**

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule A: Preliminary and General

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
		SCHEDULE A: PRELIMINARY AND GENERAL				
	SANS 1200 A	PRELIMINARY AND GENERAL				
	8.3	FIXED-CHARGE ITEMS				
A.1	PSA 8.3.1	Contractual Requirements	Sum	1.000		
	8.3.2	Establish Facilities on the Site :				
	PSA 8.3.2.1	a) Facilities for Engineer (SANS 1200 AB)				
A.2		Offices: 1 furnished rooms	Sum	0.000		Rate Only
A.3		Carport	Sum	0.000		Rate Only
A.4		Protective clothing and survey equipment	Sum	0.000		Rate Only
		b) Facilities for Contractor				
A.5		Offices and storage sheds	Sum	1.000		
A.6		Ablution and latrine facilities	Sum	1.000		
A.7		Tools and equipment	Sum	1.000		
A.8		Water supplies, electric power and communications	Sum	1.000		
A.9		Dealing with water (Subclause 5.5)	Sum	1.000		
A.10		Access (Subclause 5.8)	Sum	1.000		
A.11	8.3.3	Other fixed-charge obligations	Sum	1.000		
A.12	PSA 8.13	Initial compliance with Occupational Health and Safety requirements	Sum	1.000		
A.13	PSA 8.14	Initial compliance with Environmental requirements, including for provision of venue and staff attendance at environmental awareness training course	Sum	1.000		
A.14	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	1.000		
	8.4	TIME-RELATED ITEMS				
A.15	PSA 8.4.1	Contractual Requirements	Month	3.000		
	PSA 8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Engineer for duration of construction (SANS 1200 AB)				
A.16		Offices: 1 rooms, etc., as for item A.2	Month	0.000		Rate Only
A.17		Survey assistants and material	Month	0.000		Rate Only
	8.4.2.2	b) Facilities for Contractor for duration of construction, except where otherwise stated				
A.18		Offices and storage sheds	Month	3.000		
Total Carried Forward						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule A: Preliminary and General

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
A.19		Workshops	Month	3.000		
A.20		Ablution and latrine facilities	Month	3.000		
A.21		Tools and equipment	Month	3.000		
A.22		Water supplies, electric power and communications	Month	3.000		
A.23		Dealing with water (Subclause 5.5)	Month	3.000		
A.24		Access (Subclause 5.8)	Month	3.000		
A.25	8.4.3	Supervision	Month	3.000		
A.26	8.4.4	Company and head office overhead costs	Month	3.000		
A.27	8.4.5	Other time-related obligations	Month	0.000		Rate Only
A.28	8.4.6	Time-related costs for special non-working days (Prov)	Month	3.000		
A.29	PSA 8.13	On-going compliance with Occupational Health and Safety requirements	Month	3.000		
A.30	PSA 8.14	On-going compliance with Environmental requirements	Month	3.000		
	PSA 8.5	SUMS STATED PROVISIONALLY BY ENGINEER				
		For work to be done by Contractor and valued in terms of Clause 6.6 of conditions of contract				
A.31		Allow for the cost of additional materials testing to be undertaken at the request of the Engineer.	Prov Sum	1.000	20,000.00	20,000.00
A.32		Mark-up on item A.31 for Contractor's overheads, charges and profit (state % and extend as an amount)	%	20,000.000		
A.33		Employment of Community Liaison Officer for the duration of construction	Month	3.000		
A.34		Mark-up on item A.33 for Contractor's overheads, charges and profit (state % and extend as an amount)	%			
	PSA 8.7	Daywork				
		Labour:				
A.35		Skilled labour	h	40.000		
A.36		Semi-skilled labour	h	40.000		
A.37		Unskilled labour	h	40.000		
A.38		Materials	Sum	1.000		
A.39		Percentage adjustment to item A.38 for materials	%			
A.40		Plant	Sum	1.000		
Total Carried Forward						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule A: Preliminary and General

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
A.41		Percentage adjustment to item A.40 for plant	%			
A.42	8.8	Dealing with water	Sum	1.000		
	8.8	TEMPORARY WORKS				
A.43	PSA 8.8.1	Main access road to works: construct	Sum	1.000		
A.44	PSA 8.8.2	Deal with traffic and maintain road (or accommodation of traffic)	Sum	1.000		
A.45	8.8.1	Accommodation of traffic during course of construction	Sum	1.000		
A.46	8.8.3	Protect all existing structures until construction of new infrastructure in vicinity is complete	Sum	1.000		
	PSA 8.8.4	EXISTING SERVICES				
A.47		Excavate by hand in soft material to expose existing services as directed by the Engineer	m³	20.000		
A.48		Dealing with existing services	Sum	1.000		
A.49		Locating, protection, alteration and relocation of existing services carried out by others.	Sum	1.000		
A.50		Overheads charges and profit on item A.49	%			
Total Carried Forward To Summary						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule B: Site Clearance

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	SANS 1200 C	SCHEDULE B: SITE CLEARANCE				
B.1	PSC 8.2.1	Clear and grub site (provisional: area to be designated by Employers Agent)	m²	50.000		
	8.2.2	Remove and grub trees and tree stumps of girth				
B.2		a) over 0,5 m up to and including 1,0 m	No.	5.000		
B.3		b) over 1,0 m up to and including 2,0 m	No.	5.000		
	PSC 8.2.7	Dismantle and remove				
		a) Pipelines				
B.4		i) Up to 150 mm diameter	m	50.000		
B.5		b) Sewer structures: Manholes (brick, fibre cement or concrete)	No.	5.000		
		d) Asphalt				
B.6		i) Asphalt (0mm to 50 mm thick)	m²	80.000		
		e) Concrete in roads, driveways or walkways				
B.7		i) Up to 100 mm thick concrete	m²	40.000		
B.8	PSC 8.2.10	Remove topsoil to a nominal depth of 150 mm, stockpile and reinstate	m³	30.000		
	PSC 8.2.11	Remove and stockpile material for later reinstatement				
B.9		a) Kerbs, edging and channels	m	10.000		
B.10		b) Brick paved / Interlocking bricks in roads, driveways or walkways	m²	200.000		
B.11		c) Grass and lawns	m²	200.000		
	PSC 8.2.12	Saw cutting of existing surfaces				
		a) Asphalt				
B.12		i) Asphalt (0mm to 50 mm thick)	m	325.000		
		b) Concrete				
B.13		i) Up to 100 mm thick concrete	m	400.000		
Total Carried Forward To Summary						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule C: Earthworks (Pipe Trenches)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	SANS 1200 DB	SCHEDULE C: EARTHWORKS (PIPE TRENCHES)				
	8.3.4	PARTICULAR ITEMS				
	PSDB 8.3.4	a) Shoring trenches and pits in all cases for depths:				
C.1		i) 1,0 m - 2,0 m	m <sup>2</sup>	325.000		
C.2		ii) 2,0 m - 3,0 m	m <sup>2</sup>	400.000		
	8.3.5	PROTECTION OF EXISTING SERVICES				
	8.3.5 a)	Services that intersect a trench (temporary protection)				
C.3		a) LV electrical cables	No.	10.000		
C.4		b) HV electrical cables	No.	0.000		Rate Only
C.5		c) House water connections	No.	47.000		
C.6		d) Water mains	No.	5.000		
C.7		e) Bulk water mains	No.	5.000		
C.8		f) Stormwater pipes up to 600 mm diam.	No.	5.000		
C.9		g) Stormwater pipes over 600 mm diam.	No.	0.000		Rate Only
C.10		h) Sewers pipes up to 300 mm diam.	No.	0.000		Rate Only
C.11		i) Sewer pipes over 300 mm diam.	No.	0.000		Rate Only
C.12		j) Telecommunication cables in ducts	No.	5.000		
C.13		k) Telecommunication optic fibre cables	No.	5.000		
C.14		l) Stormwater channels and kerbs	No.	5.000		
	8.3.5 b)	Services that adjoin a trench (temporary protection)				
C.15		a) LV electrical cables	m	80.000		
C.16		b) HV electrical cables	m	0.000		Rate Only
C.17		c) Water mains	m	80.000		
C.18		d) Bulk water mains	m	0.000		Rate Only
C.19		e) Stormwater pipes up to 600 mm diam.	m	80.000		
C.20		f) Stormwater pipes over 600 mm diam.	m	0.000		Rate Only
C.21		g) Sewers pipes up to 300 mm diam.	m	0.000		Rate Only
C.22		h) Sewer pipes over 300 mm diam.	m	0.000		Rate Only
C.23		i) Telecommunication cables in ducts	m	80.000		
C.24		j) Telecommunication optic fibre cables	m	80.000		
C.25		k) Stormwater channels and kerbs	m	80.000		
Total Carried Forward						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule C: Earthworks (Pipe Trenches)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
	PSDB 8.3.6	FINISHING (REINSTATEMENT)				
	PSDB 8.3.6.1	a) Reinstate road surfaces including the following new layerworks from commercial sources:				
C.26		i) 150 mm G5 gravel subbase compacted to 95% MOD AASHTO density	m <sup>2</sup>	80.000		
C.27		ii) 150 mm G4 gravel base compacted to 98% of MOD AASHTO density	m <sup>2</sup>	80.000		
C.28		iii) Asphalt surfacing (medium continuously grade) 40 mm thick, on prepared surface with Pen 30/60 primer & sealing of edges	m <sup>2</sup>	80.000		
C.29		iv) Tack coat	m <sup>2</sup>	80.000		
	PSDB 8.3.6.1	b) Reinstate sidewalks and footways surfaces including the following new layerworks from commercial sources:				
C.30		i) 100 mm thick G5 gravel Subbase compacted to 98% MOD. AASHTO density	m <sup>2</sup>	5.000		
C.31		ii) Asphalt surfacing 30mm thick, on prepared surface with Pen 30/60 primer and sealing of edges	m <sup>2</sup>	5.000		
	PSDB 8.3.6.1	c) Reinstate other surfaces including the following new layerworks from commercial sources:				
C.32		i) Concrete (75 mm thick, 25 MPa on 100 mm G5 gravel Subbase compacted to 95% MOD. AASHTO density on sidewalks and driveways)	m <sup>2</sup>	40.000		
C.33		ii) Brick Paving (60 mm thick concrete pavers on 20 mm sand bed to matching colours on 100 mm thick G5 gravel subbase compacted to 96% MOD. AASHTO density on sidewalks)	m <sup>2</sup>	5.000		
C.34		iii) Interlocking concrete block paving (40 mm thick 30 MPa on 150 mm thick G5 gravel Subbase compacted to 96 % MOD. AASHTO density in roadway)	m <sup>2</sup>	80.000		
C.35		iv) Interlocking concrete block paving (80 mm thick 30 MPa on 150 mm thick G5 gravel Subbase compacted to 96 % MOD. AASHTO density in roadway)	m <sup>2</sup>	5.000		
C.36		v) Cobblestones/blocks (80 mm thick 30 MPa on 150 mm thick G5 gravel Subbase compacted to 96 % MOD. AASHTO density in roadway)	m <sup>2</sup>	10.000		
		d) Reinstate grass and lawns				
C.37		i) Using sods	m <sup>2</sup>	180.000		
Total Carried Forward To Summary						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule D: Concrete Kerbing and Channelling

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	SANS 1200 MM	SCHEDULE D: ANCILLARY ROADWORKS				
	8.4	SCHEDULED ITEMS FOR ROAD MARKINGS				
	8.4.1	Non-reflectorised paint applied at nominal rate of 0,42 l/m <sup>2</sup> for:				
		a) White lines (Broken or unbroken)				
D.1		i) 100 mm wide	km	0.100		
		b) Yellow lines (Broken or unbroken)				
D.2		i) 100 mm wide	km	0.100		
D.3		c) White characters and symbols	m <sup>2</sup>	5.000		
Total Carried Forward To Summary						

Part C2 : Pricing Data



**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule E: Trenchless Sewer Replacement

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	PS LQ	SCHEDULE E: TRENCHLESS SEWER REPLACEMENT				
	PS LQ 8.2.1	PIPE BURSTING				
		a) Supply and install by pipe bursting solid wall High Density Polyethylene (HDPE) replacement pipes				
		1) PN 12.5 PE 100 HDPE pipes of diameter				
E.1		a) 110 mm	m	0.000		Rate Only
E.2		b) 160 mm	m	700.000		
	PS LQ 8.2.2	PIPE GROUTING				
		1) Grouting of annular space between new HDPE pipe and existing pipe				
E.3		a) 110 mm	m	0.000		Rate Only
E.4		b) 160 mm	m	0.000		Rate Only
	PS LQ 8.2.3	POINT REPAIRS				
		1) Point repair of existing pipeline including excavation, dewatering, temporary sewage diversion, removal of defective pipe section, installation of new pipe length with bedding and jointing, backfilling, compaction and reinstatement				
E.5		a) 110 mm	No.	0.000		Rate Only
E.6		b) 160 mm	No.	15.000		
	PS LQ 8.2.4	LATERAL ERF CONNECTIONS				
		1) Connection of lateral erf sewer connections to the newly installed sewer main, including all work and materials				
E.7		a) 110 mm diameter onto 160 mm diameter HDPE	No.	47.000		
	PS LQ 8.2.5	MODIFICATION AND REINSTATEMENT OF MANHOLES				
		1) Modification of existing manhole including breaking and repair of openings through walls, breaking and replacement of benching and channelling, sealing pipe ends, manhole rehabilitation				
E.8		(a) Up to 2 m depth	No.	9.000		
E.9		(b) 2 m to 3 m depth	No.	4.000		
		2) Modification of existing house connection chamber including breaking and repair of openings through walls, breaking and replacement of benching and channelling, sealing pipe ends, house connection chamber rehabilitation				
Total Carried Forward						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule E: Trenchless Sewer Replacement

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
Brought Forward						
E.10	PS LQ 8.2.6	(a) 1 m to 2 m depth	No.	47.000		
		EXCAVATION FOR LAUNCH, RETRIEVAL, ACCESS AND LATERAL PITS				
E.11		a) Launch and retrieval pits				
		i) Up to 1 m depth	No.	4.000		
		ii) 1 m to 2 m depth	No.	16.000		
		iii) 2 m to 3 m depth	No.	10.000		
E.12		b) Access pit				
		i) Up to 1 m depth	No.	2.000		
		ii) 1 m to 2 m depth	No.	4.000		
		iii) 2 m to 3 m depth	No.	4.000		
E.13		c) Lateral connection pit				
		i) Up to 1 m depth	No.	10.000		
		ii) 1 m to 2 m depth	No.	30.000		
		iii) 2 m to 3 m depth	No.	7.000		
	PSLQ 8.2.7	BYPASS PUMPING				
E.14		(1) up to 200 mm diam. pipes	h	960.000		
	PSLQ 8.2.7	Extra over for provision of additional piping when				
		a) Layflat hosing				
E.15		(1) up to 200 mm diam. pipes	m	100.000		
		b) Rigid piping				
E.16		(1) up to 200 mm diam. pipes	m	100.000		
Total Carried Forward To Summary						

Part C2 : Pricing Data

**TRENCHLESS REHABILITATION OF SEWERS IN VELDDRIF (PORT OWEN) BY PIPE  
CRACKING / BURSTING**

T 8/3/12-2025

Schedule F: Concrete (Structural)						
ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT R
	SANS 1200 G	SCHEDULE F: CONCRETE (STRUCTURAL)				
	8.4	SCHEDULED CONCRETE ITEMS				
	8.4.3	Strength concrete: 20 MPa/40mm				
F.1		a) Mass concrete	m <sup>3</sup>	5.000		
	8.2	FORMWORK				
	8.2.1	1) Rough, vertical plane to				
F.2		a) Edges of foundations	m <sup>2</sup>	10.000		
Total Carried Forward To Summary						

Part C2 : Pricing Data

**C2.3: SUMMARY PAGE OF BILL OF QUANTITIES**

<b>SECTION</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
A	PRELIMINARY AND GENERAL	R
B	SITE CLEARANCE	R
C	EARTHWORKS (PIPE TRENCHES)	R
D	CONCRETE KERBING AND CHANELLING	R
E	TRENCHLESS SEWER REPLACEMENT	R
F	CONCRETE (STRUCTURAL)	R
<b>SUB-TOTAL A: TOTAL OF SECTIONS</b>		<b>R</b>
<b>Plus 10% Contingencies on Sub-Total A (Allowance)</b>		<b>R</b>
<b>SUB-TOTAL B: TOTAL INCLUDING CONTINGENCIES</b>		<b>R</b>
<b>PROVISION FOR 15% VALUE ADDED TAX (ON TOTAL)</b>		<b>R</b>
<b>CONTRACT SUM (INCLUDING VAT) CARRIED FORWARD TO C1.1 FORM OF OFFER</b>		<b>R</b>

## APPENDIX B: AS-BUILT INFORMATI



**TENDER T 8/3/12-2025 / MN74-2025 REPLACEMENT OF EXISTING SEWER RETICULATION  
IN PORT OWEN, VELDDRIF: ADDENDUM TO TENDER No.1**

**ACKNOWLEDGEMENT OF RECEIPT SLIP**

We hereby acknowledge receipt of this **Addendum to Tender No.1**, consisting of a total number of **6 pages**, including all appendixes.

Company Name of Bidder or name of Consortium or JV

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Addendum No.1 Signed as received

Name \_\_\_\_\_

Signature \_\_\_\_\_

Date \_\_\_\_\_