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OFFICE OF THE MUNICIPAL MANAGER

ADDENDDUM

BID 8/2/9/37 7CE/6CEPE OR HIGHER (2026-2029) BID TO APPOINT A SERVICE PROVIDER FOR THE REHABILITATION OF ROADS WITH STORMWATER DRAINAGE STRUCTURES IN MIDVAAL LOCAL MUNICIPALITY ON AN "AS AND WHEN REQUIRED BASIS" FROM DATE OF APPOINTMENT TO 30 JUNE 2029.

Midvaal Municipality hereby requests all bidders to take note of the following:

Bidders to note the original Bill of Quantity in the bid document and the distributed excel BOQ are to be disregarded and is replaced with the new BOQ annexed to this addendum as **Annexure A** to be submitted with bid document.

The same will be dispatched to all bidders who attended the compulsory briefing session.

NB! The closing date has been extended to the **02 July 2026 at 10H00**

Any Enquiries regarding the addendum can be directed to tenders@midvaal.gov.za

ORIGINAL SIGNED

Mr P. MAGODI **MN4138/26** **DATE: 12 JUNE 2026**
MUNICIPAL MANAGER

ANNEXURE A

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)		
C2.3 SUMMARY OF PRICING SCHEDULE		
Midvaal Local Municipality		
Bill No	**Description**	**Amount (R)**
	GENERAL	
C1.2	GENERAL REQUIREMENTS AND PROVISIONS	
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	
C1.4	FACILITIES FOR THE ENGINEER	
C1.5	ACCOMMODATION OF TRAFFIC	
C1.6	CLEARING AND GRUBBING	
C1.7	LOADING AND HAULING	
	SUB-TOTAL	
	SERVICES	
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	
C2.2	DRY SERVICES	
C2.3	WET SERVICES	
C2.4	ENERGY AND OTHER SERVICES	
	SUB-TOTAL	
	DRAINAGE	
C3.1	DRAINS	
C3.2	CULVERTS	
C3.3	CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, AS WELL AS CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS	
	SUB-TOTAL	
	EARTHWORKS AND PAVEMENT LAYERS MATERIALS	
C4.2	CUT MATERIALS	
C4.3	EXISTING ROAD MATERIALS	
C4.4	COMMERCIAL MATERIALS	
C4.5	ALTERNATIVE MATERIALS	
	SUB-TOTAL	
	EARTHWORKS AND PAVEMENT LAYERS CONSTRUCTION	
C5.1	ROADBED	
C5.2	FILL	
C5.3	ROAD PAVEMENT LAYERS	
C5.4	STABILISATION	
C5.5	RECONSTRUCTION OF PAVEMENT LAYERS	
	CONCRETE LAYERS	
C6.2	SEGMENTAL BLOCK PAVING LAYERS	
	SUB-TOTAL	
	MAINTENANCE AND REPAIR OF CONCRETE LAYERS	
C7.1	REPLACEMENT OF EXISTING JOINT SEALANT	
C7.2	REPAIR TO CONCRETE PANELS AND CONCRETE ADJACENT TO UNCONTROLLED CRACKS AND EXISTING JOINTS	
C7.3	REMOVAL AND REINSTATEMENT OF EXISTING CONCRETE LAYERS	
C7.4	REINSTATEMENT OF SLAB SUPPORT BY GROUT INJECTION	
C7.5	REINSTATEMENT OF RIDING QUALITY	
C7.6	REINSTATEMENT OF SURFACE TEXTURE	
	SUB-TOTAL	
	PRETREATMENT AND REPAIR EXISTING LAYERS	
C8.1	PRIME COAT	
C8.2	COVER SPRAYS, FOG SPRAYS AND REJUVENATION SPRAYS	
C8.3	TEXTURE TREATMENT	
C8.4	RUT AND/OR DEPRESSION CORRECTION	
C8.5	STANDARD CRACK SEALING	
C8.6	GEOSYNTHETIC CRACK SEALING	
C8.7	PLANNING	
C8.8	PATCHING AND EDGE BREAK REPAIR	
C8.9	REPAIR OF SURFACE DEFECTS	
	SUB-TOTAL	
	ASPHALT LAYERS	
C9.1	ASPHALT LAYERS	
	SUB-TOTAL	
	SURFACE TREATMENTS	
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENTS	
	SUB-TOTAL	
	ANCILLIARY ROAD WORKS	
C11.1	PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION	
C11.2	NON-STRUCTURAL GABIONS	
C11.3	GUIDE BLOCKS AND KILOMETRE MARKERS	
C11.4	ROAD RESTRAINT SYSTEMS	
C11.6	ROAD SIGNS	
C11.7	ROAD MARKINGS AND ROAD STUDS	
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
	SUB-TOTAL	
	QUALITY ASSURANCE	
C20.1	TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP	
	SUB-TOTAL	
	TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE	
D1000	Training,Coaching,Guidance,Mentoring and Assistance	
	SUB-TOTAL	
	SUBTOTAL A	
	VALUE ADDED TAX: 15% of Subtotal	
	TOTAL CARRIED TO C.1.1.1 : FORM OF OFFER	
Bankers Details :		
Contractor's Name:		
Name reflected on bank statement: _____		
Bank:		
Branch:		
Account Number:		
Cheque Account	or Savings Account	
Signature :		
By Tenderer :		
Company Name :		
Date :		

Item	Payment Refence	Description	Unit	Qty	Rate (R)	Amount (R)
C1.2.1		**Environmental Management**				
	C1.2.1.1	Monitoring of compliance with and reporting on the EMP	month	1		
	C1.2.1.2	Dedicated environmental officer	month	1		
C1.2.2		**Programming and Reporting**				
	C1.2.2.1	Submission of a Scheme 1 Programme	lump sum	1		
	C1.2.2.2	Reviewing and updating a Scheme 1 Programme	month	1		
	C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	month	1		
C1.2.3		**Routine road maintenance of existing public roads within the Site of the Works or other public roads outside the Site of the Works which are used as detours.**				
	C1.2.3.9	Grading of temporary gravel deviations and existing roads used as detours	kilometre (km)	1		
	C1.2.3.10	Watering of temporary gravel deviations and existing roads used as detours	kilolitre (kl)	1		
C1.2.4		**Stakeholder liaison (CLO)**	month	1		
C1.2.5		**Safety**				
	C1.2.5.1	Health and safety plan	lump sum	1		
	C1.2.5.2	Implementation of health and safety plan	month	1		
C1.2.8		**Dayworks**				
	C1.2.8.1	**Personnel**				
		(a) Unskilled labourer	hr	1		
		(b) Semi-skilled labourer	hr	1		
		(c) Skilled labourer	hr	1		
		(d) Gang leader	hr	1		
		(e) Foreman	hr	1		
		(f) Skilled Artisan	hr	1		
	C1.2.8.2	**Construction equipment**				
		(a) Motor grader 140G	hr	1		
		(b) Vibratory roller (minimum size 10 ton)	hr	1		
		(c) Pneumatic roller	hr	1		
		(d) Front end loader	hr	1		
		(e) Tractor loader backhoe	hr	1		
		(f) Excavator	hr	1		
		(g) Compressor	hr	1		
		(h) 10 000 litre water truck	hr	1		
		(i) 14 000 litre water truck	hr	1		
		(j) 16 000 litre water truck	hr	1		
		(k) 18 000 litre water truck	hr	1		

	C1.2.8.3	**Vehicles**				
		(a) Light delivery vehicle(1 ton)	km	1		
		(b) Flatbed truck	km	1		
		(c) Dump truck	km	1		
		(d) Other vehicles (specify)	km	1		
	C1.2.8.4	**Materials**				
		(a) Procurement of materials	prov sum	1	R 20 000,00	20000,00
		(b) Contractor's handling costs, profit and all other charges in respect of item C1.2.8.4(a)	%	R 20 000,00	10%	2000,00
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/2/376 (7CE/6CEPE) OR HIGHER (2023-2026)
Part C1.3: Pricing Data
Section C1.3: Contractor's Site Establishment and General Obligations

Item	Payment Refence	Description	Unit	Qty	Rate (R)	Amount (R)
PC1.3.1		**The Contractor's general obligations**				
		The Contractors general obligations should not exceed 15% of the tender sum (excluding the CPA, contigencies and VAT). |The 15% will cover fixed obligations, value-related obligations and time obigations				
	C1.3.1.1	Fixed obligations	%	500 000		
	C 1.3.1.2	Value-related obligations	lump sum	1		
	C1.3.1.3	Time-related obligations	%	500 000		
C1.3.2		**Contract Sign Boards**	m^2	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C1.3: Pricing Data
Section C1.4: FACILITIES FOR THE ENGINEER

Item	Payment Refence	Description	Unit	Qty	Rate (R)	Amount (R)
C1.4		**FACILITIES FOR THE ENGINEER**				
C1.4.1		**Site accommodation**				
	C1.4.1.1	Offices and conference room 10 m²	m²	1		
C1.4.3	C1.4.3.2	Office chair	No	1		
	C1.4.3.5	Office desk with 3 drawers (at least one lockable drawer)	No	1		
	C1.4.3.11	General purpose steel cabinet with shelves	No	1		
	C1.4.3.13	220/250 volt power outlet plug point	No	1		
	C1.4.3.16	Single 1 500 mm, 22 watt LED tube ceiling light	No	1		
	C1.4.3.23	Fire extinguisher 9,0 kg, dry powder type	No	1		
	C1.4.3.24	Air-conditioning unit	No	1		
	C1.4.3.27	Waste paper basket	No	1		
	C1.4.3.29	A3 / A4 colour printer, copier, scanner	No	1		
	C1.4.3.31	Rain gauge	No	1		
	C1.4.3.32	Minimum/maximum atmospheric temperature gauge	No	1		
	C1.4.3.33	Digital thermometer	No	1		
	C1.4.3.36	Measuring wheel	No	1		
C1.4.4		Prime cost items				
	C1.4.4.1	Cell phones costs, including pro-rata rentals, for calls made in connection with contract administration	PC sum	1	R 35 000,00	R35 000,00
	C1.4.4.2	Handling costs and profit in respect of item C1.4.4.1	percentage (%)	R 35 000,00		
	C1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	PC sum	1	R 12 000,00	R12 000,00
	C1.4.4.6	Handling costs and profit in respect of item C1.4.4.5	percentage (%)	R 12 000,00		
	C1.4.4.7	The provision of paper and ink for a combination colour printer/copier/scanner	PC sum	1	R 10 000,00	R10 000,00
	C1.4.4.8	Handling costs and profit in respect of item C1.4.4.7	percentage (%)	R 10 000,00		
	C1.4.4.9	The provision of a complete 220/250 volt single phase electrical power installation, including all poles, insulators, wiring, switchboards, mains connections, meters etc.	PC sum	1	R 20 000,00	R20 000,00
	C1.4.4.10	Handling costs and profit in respect of item C1.4.4.9	percentage (%)	R 20 000,00		
	C1.4.4.13	Provision of a 440 / 231 volt three phase electricity generator	PC sum	1	R 15 000,00	R15 000,00
	C1.4.4.14	Handling costs and profit in respect of item C1.4.4.13	%	15000		
C1.4.5		Services at site offices, laboratories and site accommodation:				
	C1.4.5.1	Fixed costs	lump sum	1		R0,00
	C1.4.5.2	Running costs	month	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C1.5: Pricing Data
Section C1.5: Accomodation of traffic

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C1.5.1		**Accommodation of pedestrian and non-motorised traffic**				
	C1.5.1.1	Accommodation of pedestrian and non-motorised traffic	month	1		
C1.5.2		**Accommodation of vehicular traffic**	month	1		
C1.5.3		**Liaison with traffic authorities**	month	1		
C1.5.5		**Maintenance of temporary deviations**				
	C1.5.5.9	Grading of temporary deviations and existing roads used as detours	km	1		
	C1.5.5.10	Watering of temporary deviations and existing roads used as detours	kl	1		
C1.5.7		**Temporary traffic control facilities**				
	C1.5.7.1	Delineators including mounting bases and ballast:				
		(a) Single sided, reversible left or right *(600mm)*	No.	1		
		(b) Double sided, reversible left or right *(600mm)*	No.	1		
	C1.5.7.2	Traffic cones, minimum height 750mm	No.	1		
	C1.5.7.3	Flagmen	man-shift	1		
	C1.5.7.4	Traffic controllers	man-shift	1		
	C1.5.7.7	Traffic calming devices:				
		(a) 25 mm high x 100 mm wide asphalt rumble strips	m	1		
		(b) 50 mm high x 500 m wide asphalt rumble strips	m	1		
		(c) 150 mm high x 3 m wide asphalt speed control humps	m	1		
C1.5.9		**Traffic safety vehicle**	month	1		
C1.5.11		**Provision of safety equipment for visitors**				
	C1.5.11.1	Provision of reflective safety vests for visitors	No.	1		
C1.5.12		**Additional traffic accommodation facilities ordered by the Engineer:**				
	C1.5.12.1	Provision of additional traffic accommodation facilities	prov sum	1	R 50 000,00	50000
	C1.5.12.2	Handling cost, profit and all other charges in respect of item C1.5.12.1	percentage (%)	R 50 000,00		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C1.6: Pricing Data
Section C1.6: Clearing and Grubbing

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C1.6		**CLEARING AND GRUBBING**				
C1.6.1		Clearing:				
	C1.6.1.1	**Clearing with machines and some hand labour where necessary**	ha	1		
C1.6.2		**Grubbing:**				
	C1.6.2.1	Grubbing with machines and some hand labour where necessary	ha	1		
TOTAL CARRIED FORWARD TO SUMMARY						R -

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C1.5: Pricing Data
Section C1.7: LOADING AND HAULING

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C1.7		**LOADING AND HAULING**				
C1.7.2		**Hauling**				
	C1.7.2.2	Hauling material to spoil and off-loading it at a designated spoil or stockpile area:				
	(a)	Cleared and grubbed material (organic matter and all other unsuitable or waste material)	(m3 - km)	1		
	(b)	Soil and gravel material	(m3 - km)	1		
	(c)	Boulders, hard material and concrete	(m3 - km)	1		
TOTAL CARRIED FORWARD TO SUMMARY						R -

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C2.1.1		**Location, identification, protection and relocation of existing services**				
	C2.1.1.1	Contractor's obligations	lump sum	1		
	C2.1.1.2	Permanent services relocation or protection work by others	PC sum	1	R80 000	80 000,00
	C2.1.1.3	Handling costs and profit in respect of item C2.1.1.2 above	%	80000		
	C2.1.1.4	Permanent services relocation or protection work by the Contractor	prov sum	1	R80 000	80 000,00
C2.1.2		**Existing services location, detection and verification**				
	C2.1.2.1	Using specialist detection services *(ground penetrating radar, radio detection etc.)*	PC sum	1	R50 000	50 000,00
	C2.1.2.2	Handling costs and profit in respect of item C2.1.2.1 above	%	R50 000		
	C2.1.2.3	Survey to verify existing service positions	PC sum	1	R50 000	50 000,00
	C2.1.2.4	Handling costs and profit in respect of item C2.1.2.3 above	%	R50 000		
	C2.1.2.5	Using hand excavation to locate, expose and verify services	m^3	1		
C2.1.3		**Obtaining construction or work permits**	lump sum	1		
C2.1.4		**Provision of guarantees or deposits for services**				
	C2.1.6.1	Trenches up to 1,0 m wide:				
		(a) Up to 1,0 m deep	m^3	1		
		(b) Over 1,0 m and up to 2,0 m deep	m^3	1		
		(c) Over 2,0 m deep, etc. to be inserted, increased by additional 1,0 m depths as required	m^3	1		
C2.1.6.2		Trenches over 1,0 m and up to 2,0 m wide:				
		(a) Up to 1,0 m deep	m^3	1		
		(b) Over 1,0 m and up to 2,0 m deep	m^3	1		
		(c) Over 2,0 m deep, etc., increased by additional 1,0 m depths as required	m^3	1		
C2.1.6.3		Trenches over 2,0 m wide and up to 3,0 m, etc., increased by additional 1,0 m widths as required:				
		(a) Up to 1,0 m deep	m^3	1		
		(b) Over 1,0 m and up to 2,0 m deep	m^3	1		
		(c) Over 2,0 m deep, etc., increased by additional 1,0 m depths as required	m^3	1		
C2.1.7		Extra over items C2.1.6, C2.1.8 and C2.1.16 for excavating in:				
	C2.1.7.1	Hard material irrespective of depth	m^3	1		
	C2.1.7.2	Stabilised material irrespective of depth	m^3	1		
C2.1.8		Excavations outside the normal trench profile	m^3	1		
C2.1.9		Trench excavation using labour enhanced construction methods:				
	C2.1.9.1	Trenches up to 1,0 m wide (in soft material):				
		(a) Up to 1,0 m deep	m^3	1		
		(b) Over 1,0 m and up to 1,5 m deep	m^3	1		
	C2.1.9.2	Trenches over 1,0 m and up to 2,0 m wide (in soft material):				
		(a) Up to 1,0 m deep	m^3	1		
		(b) Over 1,0 m and up to 1,5 m deep	m^3	1		
	C2.1.9.3	Trenches up to 1,0 m wide (in intermediate material):				
		(a) Up to 1,0 m deep	m^3	1		

			(b) Over 1,0 m and up to 1,5 m deep	m³	1		
	C2.1.9.4		Trenches over 1,0 m and up to 2,0 m wide (in intermediate material):				
			(a) Up to 1,0 m deep	m³	1		
			(b) Over 1,0 m and up to 1,5 m deep	m³	1		
C2.1.10			Excavation in tunnels exceeding 3,0 m in length in:				
	C2.1.10.1		Soft material	m³	1		
C2.1.11			Backfilling of trenches				
	C2.1.11.1		Backfill compacted to 93 % (100 % for sand) of MDD (areas subject to traffic loads) using material:				
			From the excavated trench material	m^3	1		
			From other excavations on site	m^3	1		
			From approved borrow areas	m^3	1		
			From sources provided by the Contractor	m^3	1		
			From commercial sources (G6 classified material)	m^3	1		
	C2.1.11.2		Backfill compacted to 90 % (100 % for sand) of MDD or complying with the DCP requirements of Clause A2.1.8.2c) (areas not subject to traffic loads) using material:				
			From the excavated trench material	m^3	1		
			From other excavations on site	m^3	1		
			From approved borrow areas	m^3	1		
			From sources provided by the Contractor	m^3	1		
			From commercial sources (G7 classified material)	m^3	1		
C2.1.13			Extra over item C2.1.11 for backfilling with soil cement or stabilised material				
	C2.1.13.1		Backfilling trenches using soil cement using (G7 classified material) material	m^3	1		
	C2.1.13.2		Backfilling trenches using stabilised (G7 classified material) material compacted to 93 % of MDD	m^3	1		
	C2.1.13.3		Backfilling around poles using stabilised (G7 classified material) material compacted to 95 % of MDD	m^3	1		
C2.1.19			Dealing with water during services work:				
	C2.1.19.1		Dealing with surface water	lump sum	1		
	C2.1.19.2		Dealing with subsurface water	lump sum	1		
C2.1.20			Specified temporary works to control water inflow (state reference in Contract Documentation or indicate drawing number, etc.):				

	C2.1.20.1		Provide equipment	lump sum	1		
	C2.1.20.2		Operate and maintain	days	1		
	C2.1.20.3		Remove equipment	lump sum	1		
C2.1.21			Supply and installation of sandbags in trenches:				
	C2.1.21.1		Biodegradable bags	No	1		
	C2.1.21.2		Geofabric bags	No	1		
C2.1.22			Existing services that intersect or adjoin a trench:				
	C2.1.22.1		Services that intersect a trench (angles between centre-lines in plan 45° to 90°):				
	C2.1.22.1		Services that intersect a trench (angles between centre-lines in plan 45° to 90°):				
		(a)	Electric and fibre cables	No	1		
		(b)	Water and sewer mains (All sizes)	No	1		
		(c)	Stormwater pipes (All sizes)	No	1		
	C2.1.22.2		Services that adjoin a trench (parallel to or at an angle between centre-lines in plan of less than 45°):				
		(a)	Electric and fibre cables	m	1		
		(b)	Water and sewer mains (All sizes)	m	1		
		(c)	Stormwater pipes (All sizes)	m	1		

C2.1.23			Reinstatement of trenches in existing surfaced roads using:				
	C2.1.23.1		Selected material (150mm G6, commercial) compacted to 93 % of MDD	m³	1		
	C2.1.23.2		Subbase material (150mm. G6, commercial) compacted to 95% of MDD	m³	1		
	C2.1.23.3		Stabilised subbase material (150mm C4, commercial) using (2.5% of Cement (CEM II/A-V 32,5 or similar approved)) compacted to 95% of MDD	m³	1		
	C2.1.23.4		Base material (150mm G2, commercial) compacted to 102% of MDD	m³	1		
	C2.1.23.5		Prime coat (MC-30 cut-back bitumen at 0.7ℓ/m²)	m²	1		
	C2.1.23.6		Tack coat (30% stable-grade emulsion at 0.55ℓ/m²)	m²	1		
	C2.1.23.7		Asphalt material (30mm continuously graded , medium grade (60/70 pen bitumen))	t	1		
	C2.1.23.8		Surface treatments (state surfacing type, binder type and application rate, aggregate size and application rate etc.)	m²	1		
C2.1.24			Saw-cutting before excavation:				
	C2.1.24.1		Saw-cutting asphalt to an average depth:				
			(a) Not exceeding 50 mm	m²	1		
			(b) Exceeding 50 mm but not exceeding 100 mm	m²	1		
			(c) Exceeding 100 mm but not exceeding 150 mm	m²	1		
	C2.1.24.2		Saw-cutting concrete to an average depth:				
			(a) Not exceeding 50 mm	m²	1		
			(b) Exceeding 50 mm but not exceeding 100 mm	m²	1		
			(c) Exceeding 100 mm but not exceeding 150 mm	m²	1		
C2.1.25			Removal of existing services:				
	C2.1.25.1		0-200mm dia water and sewer pipes irrelevant of depth	m	1		
	C2.1.25.2		300-900mm dia stormwater pipes irrelevant of depth	m	1		
	C2.1.25.3		10 - 200mm dia cables and service ducts irrelevant of depth	m	1		
C2.1.26			Disposal of existing service materials:				
	C2.1.26.1		0-200mm dia water and sewer pipes irrelevant of depth	m	1		
	C2.1.26.2		300-900mm dia stormwater pipes irrelevant of depth	m	1		
	C2.1.26.3		10 - 200mm dia cables and service ducts irrelevant of depth	m	1		
C2.1.27			Demolition of existing manholes, access chambers and other service structures consisting of:				
	C2.1.27.1		Unreinforced concrete	m³	1		
	C2.1.27.2		Reinforced concrete	m³	1		
	C2.1.27.3		Masonry	m³	1		
	C2.1.10.2		Hard material	m³	1		
C2.1.11			Backfilling of trenches:				
	C2.1.11.1		Backfill compacted to 93 % (100 % for sand) of MDD (areas subject to traffic loads) using material:				
			(a) From the excavated trench material	m³	1		
			(b) From other excavations on Site	m³	1		
			(d) From sources provided by the Contractor	m³	1		
			(e) From commercial sources (state material type)	m³	1		
	C2.1.11.2		Backfill compacted to 90 % (100 % for sand) of MDD or complying with the DCP requirements of Clause A2.1.8.2c) (areas not subject to traffic loads) using material:				
			(a) From the excavated trench material	m³	1		

			(b) From other excavations on Site	m³	1		
			(d) From sources provided by the Contractor	m³	1		
			(e) From commercial sources (state material type)	m³	1		
C2.1.12			Backfilling additional excavations in trench floors due to poor founding conditions using:	m²	1		
	C2.1.12.1		Geotextile (Kaymat Type A4 or similar (subsurface drainage))	m²	1		
	C2.1.12.2		Concrete aggregate (37,5 mm aggregate size)	m³	1		
	C2.1.12.3		Concrete (Class 25/19 concrete)	m³	1		
C2.1.13			Extra over item C2.1.11 for backfilling with soil cement or stabilised material:				
	C2.1.13.1		Backfilling trenches using soil cement using Portland cement, 5% of the dry mass	m³	1		
	C2.1.13.2		Backfilling trenches using stabilised (G7) material compacted to 93 % of MDD	m³	1		
	C2.1.13.4		Cement (CEM II/A-V 32,5 or similar approved)	kg	1		
C2.1.14			Extra over items C2.1.11, C2.1.12 and C2.1.13 for additional compaction of backfill:				
	C2.1.14.1		Compaction increased from 90 % of MDD to 93 % of MDD	m³	1		
	C2.1.14.2		Compaction increased from 93 % of MDD to 95 % of MDD	m³	1		
	C2.1.14.3		Compaction increased from 95 % of MDD to 98 % of MDD	m³	1		
C2.1.15			Stone packing:				
	C2.1.15.1		In bolsters	m³	1		
C2.1.16			Subsurface drains in trench bottoms (Contract Documentation reference or drawing	m	1		
C2.1.17			Removal and disposal of spoil material from trench excavations:				
	C2.1.17.1		To spoil sites provided by the Employer as indicated in the Contract Documentation or as instructed by the Engineer	m³	1		
	C2.1.17.2		To spoil sites or dumping areas provided by the Contractor	m³	1		
C2.1.18			Timbering, strutting and shoring:				
	C2.1.18.1		Timbering, strutting and shoring left in excavations	m²	1		
	C2.1.18.2		Timbering, strutting and shoring opposite a structure or service (state reference in Contract Documentation or indicate drawing number, etc.)	m	1		
C2.1.19			Dealing with water during services work:				
	C2.1.19.1		Dealing with surface water	lump sum	1		
	C2.1.19.2		Dealing with subsurface water	lump sum	1		
C2.1.20			Specified temporary works to control water inflow (state reference in Contract Documentation or indicate drawing number, etc.):				
	C2.1.20.1		Provide equipment	lump sum	1		
	C2.1.20.2		Operate and maintain	days	1		
	C2.1.20.3		Remove equipment	lump sum	1		
C2.1.21			Supply and installation of sandbags in trenches:				
	C2.1.21.1		Biodegradable bags	No	1		
	C2.1.21.2		Geofabric bags	No	1		
C2.1.22			Existing services that intersect or adjoin a trench:				
	C2.1.22.1		Services that intersect a trench (angles between centre-lines in plan 45° to 90°):				
			(a) Electric and fibre cables	No	1		
			(b) Water and sewer mains (All sizes)	No	1		

			(c) Stormwater pipes (All sizes)	No	1		
	C2.1.22.2		Services that adjoin a trench (parallel to or at an angle between centre-lines in plan of less than 45°):				
			(a) Electric and fibre cables	m	1		
			(b) Water and sewer mains (All sizes)	m	1		
			(c) Stormwater pipes (All sizes)	m	1		
C2.1.23			Reinstatement of trenches in existing surfaced roads using:				
	C2.1.23.1		Selected material (150mm G5/G6, commercial) compacted to 93 % of MDD	m³	1		
	C2.1.23.2		Subbase material (150mm. G5/G6, commercial) compacted to 95% of MDD	m³	1		
	C2.1.23.3		Stabilised subbase material (150mm C4, commercial) using (2.5% of Cement (CEM II/A-V 32,5 or similar approved)) compacted to 95% of MDD	m³	1		
	C2.1.23.4		Base material (150mm G2, commercial) compacted to 102% of MDD	m³	1		
	C2.1.23.5		Prime coat (MC-30 cut-back bitumen at 0.7ℓ/m²)	m²	1		
	C2.1.23.6		Tack coat (30% stable-grade emulsion at 0.55ℓ/m²)	m²	1		
	C2.1.23.7		Asphalt material (30mm continuously graded , medium grade (60/70 pen bitumen))	t	1		
	C2.1.23.8		Surface treatments (Bituminous surface treatment with 13.2 mm aggregate and slurry seal using 150/200 penetration-grade bitumen in the tack coat and 60% or 65% emulsion in the penetration spray	m²	1		
C2.1.24			Saw-cutting before excavation:				
	C2.1.24.1		Saw-cutting asphalt to an average depth:				
			(a) Not exceeding 50 mm	m²	1		
			(b) Exceeding 50 mm but not exceeding 100 mm	m²	1		
			(c) Exceeding 100 mm but not exceeding 150 mm	m²	1		
	C2.1.24.2		Saw-cutting concrete to an average depth:				
			(a) Not exceeding 50 mm	m²	1		
			(b) Exceeding 50 mm but not exceeding 100 mm	m²	1		
			(c) Exceeding 100 mm but not exceeding 150 mm	m²	1		
C2.1.25			Removal of existing services:				
	C2.1.25.1		0-200mm dia water and sewer pipes irrelevant of depth	m	1		
	C2.1.25.2		300-900mm dia stormwater pipes irrelevant of depth	m	1		
	C2.1.25.3		10 - 200mm dia cables and service ducts irrelevant of depth	m	1		
C2.1.26			Disposal of existing service materials:				
	C2.1.26.1		0-200mm dia water and sewer pipes irrelevant of depth	m	1		
	C2.1.26.2		300-900mm dia stormwater pipes irrelevant of depth	m	1		
	C2.1.26.3		10 - 200mm dia cables and service ducts irrelevant of depth	m	1		
C2.1.27			Demolition of existing manholes, access chambers and other service structures consisting of:				
	C2.1.27.1		Unreinforced concrete	m³	1		
	C2.1.27.2		Reinforced concrete	m³	1		
	C2.1.27.3		Masonry	m³	1		
C2.2			**DRY SERVICES**				
	C2.2.1		Supply, lay and prove ducts:				
	C2.2.1.1		Ordinary Pipes				
			(a) 160 mm diameter uPVC	m	1		

			(b) 200 mm diameter uPVC	m	1		
	C2.2.2		Extra over item C2.2.1 for the provision of split ducts:				
	C2.2.2.1		uPVC				
			(a) 160 mm diameter uPVC	m	1		
			(b) 200 mm diameter uPVC	m	1		
C2.2.3			Lay and prove ducts provided by others:				
	C2.2.3.1		State for each duct to be laid the material type:				
			(a) 160 mm diameter uPVC	m	1		
			(b) 200 mm diameter uPVC	m	1		
C2.2.4			Bedding for ducts compacted to 90 % of MDD (100 % for sand) using material:				
	C2.2.4.1		Selected from the excavated trench material	m³	1		
	C2.2.4.2		Selected from other excavations on site	m³	1		
	C2.2.4.4		Selected from sources provided by the Contractor	m³	1		
	C2.2.4.5		From commercial sources:				
			(a) Non-cohesive material (sand from commercial sources)	m³	1		
			(b) Crushed stone material (19mm nominal size aggregate)	m³	1		
	C2.2.4.6		Extra over items C2.2.4.1 to C2.2.4.5 for stabilising material with cement	m³	1		
	C2.2.4.7		Cement (Cement (CEM II/A-V 32,5 or similar approved) for stabilising bedding	kg	1		
C2.2.5□			Concrete for bedding and encasement of ducts:				
	C2.2.5.1□		Concrete bedding (Class 25/19 concrete)	m³	1		
	C2.2.5.2		Concrete encasement of ducts (Class 25/19 concrete)	m³	1		
	C2.2.6		Duct accessories (markers, marking, draw wires and end caps, etc.):				
	C2.2.6.1		Duct markers (As per drawing)	No	1		
	C2.2.6.2		Duct marking (As per drawing)	No	1		
	C2.2.6.3		Draw wires (As per drawing)	m	1		
	C2.2.6.4		End caps or plugs (As per drawing)	No	1		
	C2.2.7		Handholes, manholes and access chambers for ducts:				
	C2.2.7.1		Handholes (As per drawing):				
			(a) Over 0,0 m and up to 1,5 m deep	No	1		
			(b) Over 1,5 m and up to 2,0 m deep	No	1		
	C2.2.7.2		Manholes (As per drawing):				
			(a) Over 0,0 m and up to 1,5 m deep	No	1		
			(b) Over 1,5 m and up to 2,0 m deep	No	1		
	C2.2.8		Covers and frames for duct handholes, manholes and access chambers:				
	C2.2.8.1		Type 2A, SABS 558/1973 (Heavy Duty)	No	1		
	C2.2.8.2		Type 2B, SABS 558/1973	No	1		
	C2.2.8.3		Type 4, SABS 558/1973	No	1		
	C2.2.9		Install duct handhole, manhole and access chamber covers and frames provided by others:				
	C2.2.9.1		Type 2A, SABS 558/1973 (Heavy Duty)	No	1		
	C2.2.9.2		Type 2B, SABS 558/1973	No	1		
	C2.2.9.3		Type 4, SABS 558/1973	No	1		
	C2.3		**WET SERVICES**				

	C2.3.1		Supply, lay, joint and test sewers:				
	C2.3.1.1		uPVC class 400 pipe which comply with SANS 1601 on Class B bedding for Flexible Pipelines using selected material from excavations				
			(a) 160mm dia	m	1		
			(b) 200mm dia	m	1		
	C2.3.3		Bedding for sewers (Class B and C) and fill blanket compacted to 90 % of MDD (100 % for sand):				
	C2.3.3.1		Bedding using selected granular material:				
			(a) From the excavated trench material	m³	1		
			(b) From other excavations on Site	m³	1		
			(d) From sources provided by the Contractor	m³	1		
			(e) From commercial sources	m³	1		
	C2.3.3.2		Selected fill blanket material:				
			(a) From the excavated trench material	m³	1		
			(b) From other excavations on Site	m³	1		
			(d) From sources provided by the Contractor	m³	1		
			(e) From commercial sources	m³	1		
	C2.3.3.3		Extra over items C2.3.3.1(a) to C2.3.3.1(c) and C2.3.3.2(a) to C2.3	m³	1		
	C2.3.4		Concrete for bedding (Class A) and encasement for sewers:				
	C2.3.4.1		Concrete (Class A) bedding (Class 25/19 concrete)	m³	1		
	C2.3.4.2		Concrete encasement (Class 25/19 concrete)	m³	1		
	C2.3.5		Manholes, inspection chambers and cleaning eyes for sewers:				
	C2.3.5.1		Manholes (As per drawing):				
			(a) 160 - 300mm dia Up to but not exceeding 1,5m deep	No	1		
			(b) 160 - 300mm dia Over 1,5m to 2,0m deep	No	1		
	C2.3.5.2		Extra over item C2.3.5.1 for backdrops for manholes (state type and drawing reference, etc.):				
			(a) 160 - 300mm dia Up to but not exceeding 1,5m deep	No	1		
			(b) 160 - 300mm dia Over 1,5m to 2,0m deep	No	1		
	C2.3.6		Covers and frames for sewer manholes, inspection chambers and other structures:				
	C2.3.6.1		SABS 558 Type 2A circular	No	1		
	C2.3.6.2		Type A Heavy duty cover and frame with steel lip ring	No	1		
	C2.3.6.3		Type B round replacement cover to suit existing Type 4 CI frame	No	1		
	C2.3.7		Sewer accessories (anchor blocks, marker posts, plug stoppers, etc.):				
	C2.3.7.1		Anchor blocks (As per drawing)	No	1		
	C2.3.7.3		Marker posts (As per drawing)	No	1		

	C2.3.7.4		Plug stoppers (As per drawing)	No	1		
	C2.3.8		Sewer connections (erf and existing line connections):				
	C2.3.8.1		Erf connections (state type, depth range and drawing reference):				
			(a) Erf Connection (One-house)	No	1		
			(b) Erf Connection (Two-house)	No	1		
	C2.3.8.3		Erf connections to sewer manholes:				
			(a) Erf Connection (One-house)	Sum	1		
			(b) Erf Connection (Two-house)	Sum	1		
	C2.3.8.5		Breaking into an existing sewer and building a new manhole:	Sum	1		
	C2.3.9		Raising and lowering existing sewer manholes:				
	C2.3.9.1		Raising manholes:	No	1		
	C2.3.9.2		Lowering manholes:				
			(a) As per drawing	No	1		
	C2.3.10		Testing of sewer manholes	No	1		
	C2.3.11		CCTV camera inspections:				
	C2.3.11.1		(a) 160mm dia	m	1		
	C2.3.11.2		(b) 200mm dia	m	1		
	C2.3.21		Supply and lay water mains complete with couplings:				
	C2.3.21.1		uPVC Class 12 pipes as per the SANS 966 Part 1 (or similar) on Class B bedding for Flexible Pipelines using selected material from excavations				
			(a) 110mm dia	m	1		
			(b) 160mm dia	m	1		
	C2.3.21.2		SABS / ISO 4427 PE100, PN16, SDR 11, HDPE pipes (including all mild steel fittings and couplings) on Class B bedding for Flexible Pipelines using selected material from excavations				
			(a) 20 mm NB Class PE100 / PN16 / SDR 11	m	1		
			(b) 25 mm NB Class PE100 / PN16 / SDR 11	m	1		
	C2.3.22		Extra over item C2.3.21 for supplying and fixing water main fittings or specials complete with couplings:				
	C2.3.22.1		11.25 - 90 Degree Class 16 uPVC Bends				
			(a) 110mm dia	No	1		
			(b) 160mm dia	No	1		
	C2.3.22.2		11.25 - 90 Degree Class 16 uPVC Bends				
			(a) 20 mm NB Class PE100 / PN16 / SDR 11	No	1		
			(b) 25 mm NB Class PE100 / PN16 / SDR 11	No	1		
	C2.3.23		Extra over item C2.3.21 for supplying and fixing water main valves:				
	C2.3.23.1		Class 16 gate valves with socketed ends, anti-clockwise closing non-rising spindle type for the following sizes:				
			(a) 110mm dia	No	1		
			(b) 160mm dia	No	1		
	C2.3.24		Extra over item C2.3.21 for cutting of pipes and the supplying and fixing of extra couplings:				
	C2.3.24.1		SG iron fittings Grade 14 according to SABS 546, bitumen dipped, socket ending for uPVC piping according to SABS 966 with rubber rings for 1600 kPa working pressure.				
			(a) 110mm dia	No	1		

		(b) 160mm dia	No	1		
C2.3.25		Extra over items C2.3.21, C2.3.22 and C2.3.23 for supplying and installing joints with machined collars and special couplings:				
C2.3.25.1		SG iron fittings Grade 14 according to SABS 546, bitumen dipped, socket ending for uPVC piping according to SABS 966 with rubber rings for 1600 kPa working pressure.				
		(a) 110mm dia	No	1		
		(b) 160mm dia	No	1		
C2.3.26		Supplying and installing pipes, specials and valves on short pipe runs:				
C2.3.26.1		SG iron fittings Grade 14 according to SABS 546, bitumen dipped, socket ending for uPVC piping according to SABS 966 with rubber rings for 1600 kPa working pressure.				
		(a) 110mm dia	m	1		
		(b) 160mm dia	m	1		
C2.3.27		Extra over item C2.3.21 for encasing (wrapping) joints:				
C2.3.27.1		Protective pipe wrapping system for pipe joints, bends and all other exposed steel pipe specials & flanges				
		(a) 110mm dia	No	1		
		(b) 160mm dia	No	1		
C2.3.28		Installation of hydrants and water meters:				
C2.3.28.1		Supply and install Tamper proof double-lug hydrant with stainless steel spindle as shown on drawing	No	1		
C2.3.28.2		40mm Water Meter, Flanged Both Ends	No	1		
C2.3.29		Bedding for water mains (Class B and C) and fill blanket compacted to 90 % of MDD (100 % for sand):				
C2.3.29.1		Bedding using selected granular material:				
		(a) From the excavated trench material	m³	1		
		(b) From other excavations on Site	m³	1		
		(d) From sources provided by the Contractor	m³	1		
		(e) From commercial sources	m³	1		
C2.3.29.2		Selected fill blanket material:				
		(a) From the excavated trench material	m³	1		
		(b) From other excavations on Site	m³	1		
		(d) From sources provided by the Contractor	m³	1		
		(e) From commercial sources	m³	1		
C2.3.29.3		Extra over items C2.3.29.1(a) to C2.3.29.1(c) and C2.3.29.2(a) to C2.3.29.2(c) for screening material	m³	1		
C2.3.30		Concrete for bedding (Class A) and encasement for water mains:				
C2.3.30.1		Concrete (Class A) bedding (Class 25/19 concrete)	m³	1		
C2.3.30.2		Concrete encasement (Class 25/19 concrete)	m³	1		
C2.3.31		Manholes, valve and hydrant chambers, etc. for water mains:				
C2.3.31.1		Manholes (state type and drawing reference)				
		(a) 110mm dia	No	1		
		(b) 160mm dia	No	1		
C2.3.31.2		Valve chambers (gate valve, single or double air valve, etc.):				
		(a) 110mm dia	No	1		
		(b) 160mm dia	No	1		
C2.3.31.3		Hydrant chambers (As per drawing)				

			(a) 110mm dia	No	1		
			(b) 160mm dia	No	1		
	C2.3.33		Water main accessories (anchor or thrust blocks, pedestals or marker posts, etc.):				
	C2.3.33.1		Anchor or thrust blocks (As per drawing)	No	1		
	C2.3.33.2		Anchor or thrust blocks (As per drawing)	m³	1		
	C2.3.33.5		Marker posts or blocks (As per drawing)	No	1		
	C2.3.34		Connections to existing water mains:				
	C2.3.34.1		(As per drawing)	No	1		
	C2.3.35		Raising and lowering existing manholes or valve or hydrant chambers:	%			
	C2.3.35.1		Raising manholes or valve of hydrant chambers:				
			(a) (As per drawing)	No	1		
	C2.3.35.2		Lowering manholes or valve or hydrant chambers:				
			(a) (As per drawing)	No	1		
	C2.3.36		Disinfection of potable water pipelines:				
	C2.3.36.1		(a) 110mm dia	m	1		
	C2.3.36.2		(b) 160mm dia	m	1		
	C2.4		**ENERGY AND OTHER SERVICES**				
	C2.4.1		Bedding for electric power cables using material:				
	C2.4.1.1		Selected from the excavated trench material	m³	1		
	C2.4.1.2		Selected from other excavations on site	m³	1		
	C2.4.1.4		Selected from sources provided by the Contractor	m³	1		
	C2.4.1.5		From commercial sources:				
			(a) Uncrushed material (G7)	m³	1		
			(b) Crushed stone material (13.2mm aggregates)	m³	1		
	C2.4.2		Concrete for bedding and encasement for electric power cables:				
	C2.4.2.1		Concrete bedding (Class C16 / 20-20 concrete)	m³	1		
	C2.4.2.2		Concrete encasement of cables (Class C16 / 20-20 concrete)	m³	1		
	C2.4.3		Cable laying accessories (warning tape, protection slabs, markers, etc.):				
	C2.4.3.1		Electrical warning tape (As per drawing)	m	1		
	C2.4.3.2		Concrete slab protection (As per drawing)	m	1		
	C2.4.3.3		Cable markers (As per drawing)	No	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
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) 0 m to 1,5 m	m³	1		
			(b) Exceeding 1,5 m and up to 3,0 m	m³	1		
	C3.1.1.2		Extra over sub-item C3.1.1.1 for excavation in hard and boulder material irrespective of depth	m³	1		
	C3.1.1.3		Extra over sub-item C3.1.1.1 for excavation in stabilised existing road layers, irrespective of depth	m³	1		
C3.1.1.4			**Excavating soft material situated 0 m to 1,5 m below the surface level using labour enhanced construction methods**	m³	1		
	C3.1.1.5		Excavating intermediate material situated 0 m to 1,5 m below the surface level using labour enhanced construction methods	m³	1		
C3.1.2			**Clearing, shaping and disposal of accumulated sediment in existing unlined open drains**				
	C3.1.2.1		Using conventional methods	m³	1		
	C3.1.2.2		Using labour enhanced construction methods	m³	1		
C3.1.3			**Excavation, clearing and disposal of accumulated sediment in existing lined drains and drainage systems**				
	C3.1.3.1		**Using conventional methods (up to 1,5 m):**				
		(a)	(Manholes and inlet and outlet structures	m³	1		
		(b)	Culvert barrels	m³	1		
		(c)	Concrete or other lined side drains	m³	1		
	C3.1.3.2		**Using conventional methods (in excess of 1,5 m):**				
		(a)	Manholes and inlet and outlet structures	m³	1		
		(b)	Culvert barrels	m³	1		
		(c)	Concrete or other lined side drains	m³	1		
	C3.1.3.3		**Using labour enhanced construction methods:**				
		(a)	Manholes and inlet and outlet structures	m³	1		
		(b)	Culvert barrels	m³	1		
		(c)	Concrete or other lined side drains	m³	1		
C3.1.4			Excavation and disposal of material for subsoil drainage systems:				
	C3.1.4.1		Excavating in all material situated within the following depth ranges below the surface:				
			(a) 0 m to 1,5 m	m³	1		
			(b) Exceeding 1,5 m and up to 3,0 m	m³	1		
	C3.1.4.2		Excavating soft material situated within 0 m to 1,5 m below the surface level using labour enhanced construction methods	m³	1		
	C3.1.4.3		Excavating intermediate material situated within 0 m to 1,5 m below the surface level using labour enhanced construction methods	m³	1		
	C3.1.4.4		Extra over sub-item C3.1.4.1 for excavation in hard and boulder material, irrespective of depth	m³	1		
	C3.1.4.5		Extra over sub-item C3.1.4.1 for excavation through stabilised existing road layers	m³	1		

C3.1.5			Impermeable backfilling to subsoil drainage systems:				
	C3.1.5.1		Un-stabilised natural gravel obtained from approved sources on the site	m³	1		
	C3.1.5.2		G5 material obtained from commercial sources	m³	1		

	C3.1.5.3		Extra over items C3.1.5.1 and C3.1.5.2 for stabilisation with 4,0 % CEM II (32.5) cement	m³	1		
C3.1.6			Construction of banks and dykes:				
	C3.1.6.1		Banks and dykes using conventional methods	m³	1		
	C3.1.6.2		Banks and dykes using labour enhanced construction methods	m³	1		
C3.1.7			Natural permeable material in subsoil drainage systems (approved crushed stone):				
	C3.1.7.1		Crushed stone obtained from approved sources on the site (Coarse grade, 13.2mm)	m³	1		
	C3.1.7.2		Crushed stone obtained from commercial sources (Coarse grade, 19mm)	m³	1		
C3.1.8			**Natural permeable material in subsoil drainage systems (approved natural sand):**				
	C3.1.8.1		Natural sand obtained from approved sources	m³	1		
	C3.1.8.2		Natural sand from commercial sources	m³	1		
C3.1.9			**Pipes in subsoil drainage systems:**				
	C3.1.9.1		U-PVC pipes and fittings, normal duty, complete with couplings (160mm dia slotted)	m	1		
C3.1.10			**Polymer film sheeting or similar approved material, for lining subsoil drainage systems:**				
	C3.1.10.1		0,15 mm thick	m²	1		
	C3.1.10.2		0,25 mm thick	m²	1		
C3.1.11			**Geotextiles**				
			Nonwoven, continuous filament, needle-punched polyester geotextile (170 g/m²)	m²	1		
			Nonwoven, continuous filament, needle-punched polyester geotextile (200 g/m²)	m²	1		
C3.1.13			Concrete outlet structures, manhole boxes, junction boxes and				
	C3.1.13.1		Outlet structures (As per drawing)	No	1		
	C3.1.13.2		Inspection boxes (As per drawing)	No	1		
	C3.1.13.3		Junction boxes (As per drawing)	No	1		
	C3.1.13.4		Cleaning eyes (As per drawing)	No	1		
C3.1.14			**Caps for subsoil drain pipes:**				
	C3.1.14.1		Concrete caps	No	1		
	C3.1.14.2		Cast metal iron caps	No	1		
	C3.1.14.3		Other (glass fibre reinforced, PVC, etc.)	No	1		
C3.1.15			Repairing or replacing existing drainage systems	prov sum	1	150000	150000
C3.1.16			Loading and hauling of material in excess of 1,0 km	m³-km	1		
C3.1.17			Backfilling existing eroded side drains	m³	1		
C3.1.18			Backfilling of drains with selected material compacted to 93 % of MDD prior to construction of concrete lining and / or stone pitched lining	m³	1		
C3.1.19			Exposing of existing subsoil drains	m³	1		
C3.1.20			Breaking into existing drainage structures and install subsoil drain pipe	No	1		
C3.1.21			Clearing of existing subsoil drains:				
	C3.1.21.1		Cleaning rod, brush and flushing	m	1		
	C3.1.21.2		Hydro jetting	m	1		
	C3.1.22		Test flushing of subsoil drain pipe systems	No	1		

	C3.1.23		Subsoil drain outlet marker (As per drawing)	No	1		
	C3.1.24		Submission of as built drawings by the Contractor	prov sum	1	20000	20000
TOTAL CARRIED FORWARD TO SUMMARY							

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
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 the surface level:				
			(a) 0 m to 1,5 m	m³	1		
			(b) Exceeding 1,5 m and up to 3,0 m	m³	1		
			(c) Exceeding 3,0 m and up to 4,0 m	m³	1		
C3.2.1.2			Excavating soft material 0 m to 1,5 m below the surface level using labour enhanced construction methods, or instructed by hand under Clause A3.2.7.2d)	m³	1		
C3.2.1.3			Excavating intermediate material 0 m to 1,5 m below the surface level using labour enhanced construction methods, or instructed by hand under Clause A3.2.7.2d)	m³	1		
C3.2.1.4			Extra over sub-item C3.2.1.1 for excavation in hard or boulder material, irrespective of depth	m³	1		
C3.2.1.5			Extra over sub-item C3.2.1.1 for excavation in stabilised existing road layers, irrespective of depth	m³	1		
C3.2.2			**Backfilling:**				
C3.2.2.1			Using the excavated material	m³	1		
C3.2.2.2			Using imported selected material:				
			(a) From commercial sources (G7)	m³	1		
			(b) From sources on site (G7)	m³	1		
C3.2.2.3			**Extra over sub-items C3.2.2.1 and C3.2.2.2 for soil cement backfilling:**				
			(a) With wet mixture of 3 % cement	m³	1		
			(b) With dry mixture of 3 % cement	m³	1		
			(c) Variation in cement	kg	1		
C3.2.2.4			Extra over sub-items C3.2.2.1 and C3.2.2.2 for screed layers (class of concrete pipe as indicated)	m³	1		
C3.2.3			**Concrete pipe culverts:**				
	C3.2.3.1		On Class A bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			550mm dia	m	1		
			600mm dia	m	1		
			750mm dia	m	1		
			900mm dia	m	1		
	C3.2.3.2		On Class B bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			550mm dia	m	1		
			600mm dia	m	1		
			750mm dia	m	1		
			900mm dia	m	1		

C3.2.3.3		On Class C bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
		450mm dia	m	1		
		550mm dia	m	1		

			600mm dia	m	1		
			750mm dia	m	1		
			900mm dia	m	1		
	C3.2.3.3		On Class C bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			550mm dia	m	1		
			600mm dia	m	1		
			750mm dia	m	1		
			900mm dia	m	1		
	C3.2.3.4		On Class D bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			550mm dia	m	1		
			600mm dia	m	1		
			750mm dia	m	1		
			900mm dia	m	1		
	C3.2.3.5		Provision of skew ends of pipe culvert				
			450mm dia	No	1		
			550mm dia	No	1		
			600mm dia	No	1		
			750mm dia	No	1		
			900mm dia	No	1		
C3.2.5			Rectangular culverts with prefabricated elements:				
	C3.2.5.1		Prefabricated portal culverts; wall and roof combination				
			600 mm x 450 mm Class 200S	m	1		
			900 mm x 450 mm Class 175S	m	1		
			1200 mm x 450 mm Class 150S	m	1		
			600 mm x 600 mm Class 200S	m	1		
			900 mm x 600 mm Class 175S	m	1		
			1200mm x 600 mm Type 150s	m	1		
			1200 mm x 900 mm Class 150S	m	1		
			1800 mm x 1800 mm Class 75S	m	1		
	C3.2.6		Extra over items C3.2.3, C3.2.4 and C3.2.5 for constructing inclined culverts	m	1		
	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 (Class 30/20)	m^3	1		
	C3.2.7.2		In complete in-situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (Class 30/20) (installed at a standard depth of 1,0 m)	m^3	1		
	C3.2.7.3		In walls, excluding formwork but including Class U2 surface finish (Class 30/20)	m^3	1		

C3.2.7.4		In roof slabs for rectangular culverts, excluding formwork but including Class U2 surfacing finish and joints (Class 30/20)	m^3	1		
C3.2.7.5		In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish (Class 30/20)	m^3	1		
C3.2.7.6		Formwork of concrete under items C3.2.7.3 to 5 above	m^2	1		

			Vertical formwork for F1 surface finish	m²	1		
			Vertical formwork for F2 surface finish	m²	1		
	C3.2.7.7		Concrete linings for the inverts of metal culverts, including formwork and Cla	m³	1		
C3.2.8			Concrete backfill or encasement for culverts (Class 20/20)	m³	1		
C3.2.9			Prefabricated concrete inlets and outlets to culverts (Class 30/20)□	No	1		
C3.2.10			**Reinforcement:**				
	C3.2.10.1		Mild steel bars	t	1		
	C3.2.10.2		High-tensile steel bars	t	1		
	C3.2.10.3		Welded steel fabric (Ref 3.95)	kg	1		
	C3.2.11		Anchoring of reinforcing steel:	No	1		
	C3.2.13		Removing and re-laying existing culverts:				
	C3.2.13.1		Removing and stacking existing culverts for re-use				
			450mm dia	m	1		
			600mm dia	m	1		
	C3.2.13.2		Removing and re-laying existing culverts without stacking on Class B bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			600mm dia	m	1		
	C3.2.13.3		Re-laying existing culverts from stacking on Class B bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	m	1		
			600mm dia	m	1		
	C3.2.14		Protective mastic asphalt coating for corrugated metal culvert units by spray gun	m²	1		
	C3.2.15		Manholes and catch pits, with prefabricated elements:				
	C3.2.15.1		Prefabricated floors (installed at a standard depth of 1,0 m):				
			(a) As per drawing	No	1		
	C3.2.15.2		Prefabricated roofs:				
			(a) As per drawing	No	1		
	C3.2.15.3		Prefabricated walls:				
			(a) As per drawing	m	1		
	C3.2.15.4		Extra over item C3.2.15.1 and C3.2.7.2 for variations in the depths of all types of concrete manholes with prefabricated, or in-situ concrete or brickwork wall combinations deeper than 1,0 m designated for tendering purposes	m	1		
	C3.2.16		Brickwork (engineering bricks):				
	C3.2.16.1		115 mm thick	m²	1		
	C3.2.16.2		230 mm thick	m²	1		
	C3.2.16.3		345 mm thick	m²	1		
	C3.2.17		Plaster	m²	1		
	C3.2.18		Benching	m³	1		

	C3.2.19		Accessories:				
	C3.2.19.1		Manhole covers including frames				
			Type 2A, SABS 558/1973	No	1		
			Type 2B, SABS 558/1973	No	1		
			Type 4, SABS 558/1973	No	1		
	C3.2.19.2		Inlet grids or covers				
			Type 6, SABS 1115	No	1		
			TPA type 40	No	1		
			TPA type 80	No	1		
	C3.2.19.7		Step irons				
			Galvanised step irons to BS1247	No	1		
			Galvanised reinforcing bar	No	1		
	C3.2.20		Anchors for pipes (description)	No			
	C3.2.21		Prefabricated reinforced-concrete skew end units for concrete culverts constructed at a skew angle on Class B bedding (Concrete pipe culverts Ogee type, Class SC: Class 100D pipes)				
			450mm dia	No	1		
			550mm dia	No	1		
			600mm dia	No	1		
			750mm dia	No	1		
			900mm dia	No	1		
C3.2.22			Cutting of concrete pipes (450mm dia to 900mm dia)	No	1		
C3.2.23			Breaking into existing drainage structures and building in pipes or culverts of the following size (450mm dia to 900mm dia)	No	1		
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 (up to 300mm)	m³	1		
	C3.2.24.2		Extra-over sub-item C3.2.24.1 for compaction to 93 % of MDD (up to 300mm)	m³	1		
C3.2.25			Painting of exposed steel bars with two coats of zinc rich primer (type specified)	ℓ	1		
C3.2.27			Repair with epoxy mortar	ℓ	1		
	C3.3		CONCRETE KERBING AND CHANNELING, ASPHALT BERMS, CHUTES, DOWNPIPES, CONCRETE, STONE PITCHED AND GABION LININGS FOR OPEN DRAINS				
	C3.3.1		Concrete kerbing:				
	C3.3.1.1		Prefabricated kerbing to be bedded on material that consists of crushed stone, cinders, slag, sand or other approved porous material with a maximum particle size of 13,2 mm:				
			(a) SANS 927 fig. 3 kerb				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(b) SANS 927 fig. 4				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		

			Straight and to radius not less than 20 m	m	1		
			(c) SANS 927 fig. 7				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(d) SANS 927 fig. 8c				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
	C3.3.1.2		Cast-in-situ kerbing:				
			(a) Fig 3 (class 20/19)				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(b) Fig 4 (class 20/19)				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(c) Fig 7 (class 20/19)				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(d) Fig 8c (class 20/19)				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
	C3.3.2		Concrete kerbing-channeling combination:				
	C3.3.2.1		Prefabricated kerbing-channeling to be bedded on material that consists of crushed stone, cinders, slag, sand or other approved porous material with a maximum particle size of 13,2 mm (300mm wide cast in situ concrete channel)				
			(a) Precast SANS 927 fig. 3 kerb and with 300mm cast in situ class 30/20 concrete channel as shown on drawings				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(b) Precast SANS 927 fig. 4 kerb and with 300mm cast in situ class 30/20 concrete channel as shown on drawings				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(c) Precast SANS 927 fig. 7 kerb and with 300mm cast in situ class 30/20 concrete channel as shown on drawings				

			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
			(d) Precast SANS 927 fig. 8c kerb and with 300mm cast in situ class 30/20 concrete channel as shown on drawings				
			Radius 1 m to 4 m	m	1		
			Radius 4.01 m to 20 m	m	1		
			Straight and to radius not less than 20 m	m	1		
	C3.3.3		Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves:				
	C3.3.3.1		On curves of radii more than or equal to 5,0 m but less than 20,0 m	m	1		
	C3.3.3.2		On curves with radii more than or equal to 1,0 m but less than 5,0 m	m	1		
	C3.3.3.3		On curves with radii less than 1,0 m	m	1		

	C3.3.4		Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways	m	1		
	C3.3.5		Asphalt berms:				
	C3.3.5.1		Asphalt berms placed where there are no vehicle restraint systems	m	1		
	C3.3.5.2		Asphalt berms placed at existing vehicle restraint systems	m	1		
	C3.3.5.3		Prime coat (MC -10 cut-back bitumen)	m²	1		
	C3.3.5.4		Bond coat (Stable – grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributer)	m²	1		
	C3.3.6		Concrete chutes (typical designs):				
	C3.3.6.1		Prefabricated concrete chutes	m	1		
	C3.3.6.2		Cast-in-situ concrete chutes	m	1		
	C3.3.6.3		Stone pitched chutes	m	1		
	C3.3.7		Cast-in-situ concrete chutes (measured by components):				
	C3.3.7.1		Concrete (class 25/20)	m³	1		
	C3.3.7.2		Formwork (F2 surface finish)	m²	1		
	C3.3.7.3		Stone pitched chutes:				
			(a) Grouted stone pitching	m²	1		
			(b) Grouted stone pitching on a concrete bed (class 25/20)	m²	1		
	C3.3.8		Linings for open drains:				
	C3.3.8.1		Cast-in-situ concrete lining				
			Cast in-situ concrete lining class 25/19 for 1200 mm wide, 150 mm thick sid	m³	1		
			Cast in-situ concrete lining class 25/19 for 1500 mm wide, 150 mm thick sid	m³	1		
			Cast in-situ concrete lining class 25/19 for 1500 mm wide, 150 mm thick sid	m³	1		
			Cast in-situ concrete lining class 25/19 for 1500 mm wide, 150 mm thick sid	m³	1		
			Cast in-situ concrete lining class 25/19 for 2400 mm wide, 150 mm thick sid	m³	1		
			Cast in-situ concrete lining class 25/19 for 2000 mm wide, 150 mm thick sid	m³	1		
	C3.3.8.2		Class U2 surface finish to cast-in-situ concrete (for all open drains)	m²	1		
	C3.3.8.3		Stone pitched lining (200 mm thickness):				
			(a) Grouted stone pitching	m²	1		
			(b) Grouted stone pitching on a concrete bed (class 25/20)	m²	1		
	C3.3.9		Formwork to cast-in-situ concrete lining for open drains (Class F2 surface finish):				
	C3.3.9.1		To sides with formwork on the internal face only	m²	1		
	C3.3.9.2		To sides with formwork on both internal and external faces (each face meas	m²	1		
	C3.3.9.3		To ends of slabs	m²	1		
	C3.3.10		Sealed joints in concrete and stone pitched linings of open drains				
			Polysulphide sealants	m	1		
			Polyurethane-based sealant	m	1		
			Silicone-based sealant	m	1		
	C3.3.11		Concrete screed or backfill below chutes (20mm thick mix proportion of 1 part of cement (CEM I strength class 32,5 N complying with SANS 50197-1) to 4 parts of sand by volume)	m³	1		

	C3.3.12		Reinforcement:				
	C3.3.12.1		Mild steel bars	t	1		
	C3.3.12.2		High-tensile steel bars	t	1		
	C3.3.12.3		Welded steel fabric	kg	1		
	C3.3.13		Polymer film sheeting (0,15 mm thick) for concrete-lined open drains	m²	1		
	C3.3.14		Cutting bituminous surfacing and pavement layers for concrete kerbing, cha	m	1		
	C3.3.15		Energy dissipaters in outlet structures:				
	C3.3.15.1		Precast concrete blocks in outlet structures	No	1		
	C3.3.15.2		Stones set in outlet structures	m²	1		
	C3.3.16		Demolition and removal of existing kerbs and / or channels	m³	1		

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C3.3: Pricing Data							
Section C3.3: Concrete kerbing and channeling, asphalt berms, chutes, downpipes, as well as conrete, stone pitched and gabion linings for open drains							
Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C3.3.1			**Concrete kerbing:**				
	C3.3.1.1		Prefabricated kerbing *(Various types of kerb to SABS 927 with in-situ concrete class 15/19 bedding and continous haunching)*				
			Supply and install precast concrete kerbing				
			(a) 1. Fig 3 kerbing				
		.1	Straight sections	m	1		
		.2	Curved sections, radius over 20m	m	1		
		.3	Curved sections, radius over 4m, but up to and including 20m	m	1		
		.4	Curved sections, radius over 1m, but up to and including 4m	m	1		
			(a) 2. Fig 7 kerbing				
		.1	Straight sections	m	1		
		.2	Curved sections, radius over 20m	m	1		
		.3	Curved sections, radius over 4m, but up to and including 20m	m	1		
		.4	Curved sections, radius over 1m, but up to and including 4m	m	1		
			(a) 3. Fig 8C kerbing				
		.1	Straight sections	m	1		
		.2	Curved sections, radius over 20m	m	1		
		.3	Curved sections, radius over 4m, but up to and including 20m	m	1		
		.4	Curved sections, radius over 1m, but up to and including 4m	m	1		
			(a) 4. Other				
		.1	Straight sections	m	1		
		.2	Curved sections, radius over 20m	m	1		
		.3	Curved sections, radius over 4m, but up to and including 20m	m	1		
		.4	Curved sections, radius over 1m, but up to and including 4m	m	1		
C3.3.3			**Extra over items C3.3.1 and C3.3.2 for concrete kerbing or concrete kerbing and channeling on curves**				
	C3.3.3.1		On curves of radii more than or equal to 5,0m but less than 20m	m	1		
	C3.3.3.2		On curves with radii more than or equal to 1,0m but less than 5,0m	m	1		
	C3.3.3.3		On curves with radii less than 1,0m	m	1		
C3.3.4			**Extra over item C3.3.2 for drop kerbs at pedestrian crossings and driveways**	m	1		
C3.3.14			**Cutting bituminous surfacing and pavement layers for concrete kerbing, channeling or concrete-lined drains**	m	1		
C3.3.15			Energy dissipaters in outlet structures				
	C3.3.15.1		Precast concrete blocks in outlet structures	No.	1		
C3.3.16			**Demolition and removal of existing kerbs and/or channel** *(various sizes)*	m^3	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Item	Description	Unit	Quantity	Rate	Amount R
C4.2	CUT MATERIALS				
C4.2.1	Compiling and implementing M&U plans for the cuttings:				
C4.2.1.1	Cuttings exceeding 5 000 m³ up to 10 000 m³	No	1		
C4.2.1.2	Cuttings exceeding 10 000 m³ up to 20 000 m³	No	1		
C4.2.1.3	Cuttings exceeding 20 000 m³ up to 50 000 m³	No	1		
C4.2.1.4	Cuttings exceeding 50 000 m³ up to 100 000 m³	No	1		
C4.2.1.5	Cuttings larger than 100 000 m³	No	1		
C4.2.2	Additional material investigations during the supplementary exploration:				
C4.2.2.1	Cost of additional trial pits and / or drilling and laboratory testing	prov sum	1	30000	30000
C4.2.2.2	Handling costs and profit in respect of item C4.2.2.1	%	30000		
C4.2.3	Excavating of materials in cuttings, material obtained from:				
C4.2.3.1	Soft excavation	m³	1		
C4.2.3.2	Boulder excavation class A	m³	1		
C4.2.3.3	Boulder excavation class B	m³	1		
C4.2.3.4	Hard excavation (other than by blasting)	m³	1		
C4.2.3.5	Hard excavation (by blasting)	m³	1		
C4.2.4	Excavating of materials in box cuts, material obtained from:				
C4.2.4.1	Soft excavation	m³	1		
C4.2.4.2	Boulder excavation class A	m³	1		
C4.2.4.3	Boulder excavation class B	m³	1		
C4.2.4.4	Hard excavation (other than by blasting)	m³	1		
C4.2.4.5	Hard excavation (by blasting)	m³	1		
C4.2.5	Excavating of materials in designated excavations, material obtained from:				
C4.2.5.1	Soft excavation	m³	1		
C4.2.5.2	Boulder excavation class A	m³	1		
C4.2.5.3	Boulder excavation class B	m³	1		
C4.2.5.4	Hard excavation (other than by blasting)	m³	1		
C4.2.5.5	Hard excavation (by blasting)	m³	1		
C4.2.6	Widening of existing cuttings:				
C4.2.6.1	Soft excavation	m³	1		
C4.2.6.2	Boulder excavation class A	m³	1		
C4.2.6.3	Boulder excavation class B	m³	1		
C4.2.6.4	Hard excavation (other than by blasting)	m³	1		
C4.2.6.5	Hard excavation (by blasting)	m³	1		
C4.2.7	Removal of unsuitable stable cut material to spoil:				
C4.2.7.1	In layer thicknesses of 200 mm and less	m³	1		
C4.2.7.2	In layer thicknesses exceeding 200 mm	m³	1		
C4.2.8	Excavate material to spoil in sites designated by the Employer, material obtained from:				
C4.2.8.1	Soft excavation, overburden and unsuitable material	m³	1		
C4.2.8.2	Boulder excavation class A	m³	1		

C4.2.8.3	Boulder excavation class B	m³	1		
C4.2.8.4	Hard excavation (other than by blasting)	m³	1		
C4.2.8.5	Hard excavation (by blasting)	m³	1		
C4.2.9	Excavate material to spoil in sites designated by the Contractor, material obtained from:				
C4.2.9.1	Soft excavation, overburden and unsuitable material	m³	1		
C4.2.9.2	Boulder excavation class A	m³	1		
C4.2.9.3	Boulder excavation class B	m³	1		
C4.2.9.4	Hard excavation (other than by blasting)	m³	1		
C4.2.9.5	Hard excavation (by blasting)	m³	1		
C4.2.10	Backfilling of the unavoidable overbreak in hard and boulder excavation:				
C4.2.10.1	Compliant gravel material	m³	1		
C4.2.10.2	Soil cement (stiff mix with 3 % cement)	m³	1		
C4.2.10.3	Soil cement (wet mix with 5 % cement)	m³	1		
C4.2.10.4	Concrete class 15 MPa	m³	1		
C4.2.11	Breaking down oversize material	m³	1		
C4.2.12	Finishing the side slopes:				
C4.2.12.1	Cuttings:				
	(a) In soft material	m²	1		
	(b) In boulder material class A and B	m²	1		
	(c) In hard material	m²	1		
	(d) In soft material using labour enhanced methods of construction	m²	1		
C4.2.12.2	Designated excavations	m²	1		
C4.2.12.3	Designated excavations using labour enhanced methods of construction	m²	1		
Total Carried Forward to Summary					

Item	Payment Reference		Unit	Qty	Rate (R)	Amount (R)
C4.3.1		**Additional material investigations**				
	C4.3.1.1	Cost of additional core drilling and trial pits, sampling of asphalt and laboratory testing	Prov. Sum	1	R10 000	R 10 000,00
	C4.3.1.2	Handling cost and profit in respect of item C4.3.1.1	%	R10 000		
C4.3.2		**Cleaning the existing road surface**				
	C4.3.2.1	Cost to clean the road surface	Prov. Sum	1	R10 000	R 10 000,00
	C4.3.2.2	Handling costs and profit in respect of item C4.3.2.1	%	R10 000		
C4.3.3		**Removal of bituminous seal surfacing (thickness not exceeding 30mm)**	m^2	1		
C4.3.4		**Saw-cutting existing materials within the following average depth ranges**				
	C4.3.4.1	Asphalt material:				
		(a) Up to 50 mm	m	1		
		(b) Exceeding 50 mm and up to 100 mm	m	1		
		(c) Exceeding 100 mm and up to 150 mm	m	1		
	C4.3.4.2	(a) Crushed stone and gravel material:				
		(b) Up to 100 mm	m	1		
		Exceeding 100 mm and up to 200 mm	m	1		
	C4.3.4.3	Cemented material:				
		(a) Up to 100 mm	m	1		
		(b) Exceeding 100 mm and up to 200 mm	m	1		
	C4.3.4.3	Cemented material:				
		(a) Up to 100 mm	m	1		
		(b) Exceeding 100 mm and up to 200 mm	m	1		
	C4.3.4.4	Concrete material:				
		(a) Up to 50 mm	m	1		
		(b) Exceeding 50 mm and up to 100 mm	m	1		
		(c) Exceeding 100 mm and up to 150 mm	m	1		
C4.3.5		**Providing the milling machine on the site**				
	C4.3.5.1	Small milling machine with a cutting width of 1,2m or smaller	No.	1		
	C4.3.5.2	Large milling machine with a cutting width exceeding 1,2m	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 50mm	m^3	1		
	C4.3.6.2	Exceeding 50mm but not exceeding 100mm	m^3	1		
	C4.3.6.3	Exceeding 100 mm	m^3	1		
C4.3.8		**Excavating material by milling**				
	C4.3.8.1	Crushed stone material	m^3	1		
	C4.3.8.2	Cemented material	m^3	1		
	C4.3.8.3	Natural gravel material	m^3	1		
C4.3.9		**Excavating material by using conventional road construction equipment**				
	C4.3.9.1	Asphalt material	m^3	1		
	C4.3.9.2	Crushed stone and macadam materials	m^3	1		
	C4.3.9.3	Cemented material	m^3	1		
	C4.3.9.4	Natural gravel and sand materials	m^3	1		
	C4.3.9.5	Coarse fill and rock fill	m^3	1		
C4.3.10		**Excavating material by using labour enhanced methods of construction**				
	C4.3.10.1	Asphalt material	m^3	1		
	C4.3.10.2	Crushed stone and macadam materials	m^3	1		
	C4.3.10.3	Cemented material	m^3	1		

	C4.3.10.4	Natural gravel and sand materials	m^3	1		
C4.3.11		**Breaking down a stabilised layer by using conventional road construction equipment**	m^3	1		

C4.3.12		**Removing of existing concrete material within the following average depth ranges**				
	C4.3.12.1	The break-up method:				
		(a) Not exceeding 150 mm	m^3	1		
		(b) Exceeding 150 mm but not exceeding 250 mm	m^3	1		
	C4.3.12.2	The break-up method using labour enhanced methods of construction:				
		(a) Not exceeding 75 mm	m^3	1		
		(b) Exceeding 75 mm but not exceeding 200 mm	m^3	1		
	C4.3.12.3	The lift-out method:				
		(a) Not exceeding 150 mm	m^3	1		
		(b) Exceeding 150 mm but not exceeding 250 mm	m^3	1		
C4.3.13		**Lifting of existing paving blocks (various sizes)**				
	C4.3.13.1	Using construction equipment	m^2	1		
	C4.3.13.2	Using labour enhanced methods of construction	m^2	1		
C4.3.14		**Removing of existing road edging and services structures**				
	C4.3.14.1	Removing of existing road edging using construction equipment:				
		(a) Kerbing and edge beams:				
		(i) In situ concrete kerbing and edge beams	m^3	1		
		(ii) Precast concrete kerbing *(figure 3, 7 and 8c)*	m	1		
		(iii) Precast concrete kerbing *(figure 3, 7 and 8c)* and situ concrete channel	m	1		
		(b) Kerb inlets	No.	1		
		(c) Grid inlets	No.	1		
	C4.3.14.2	Removing of existing road edging using labour enhanced methods of construction:				
		(a) Kerbing and edge beams:				
		(i) In situ concrete kerbing and edge beams	m^3	1		
		(ii) Precast concrete kerbing *(figure 3, 7 and 8c)*	m	1		
		(iii) Precast concrete kerbing *(figure 3, 7 and 8c)* and situ concrete channel	m	1		
		(b) Kerb inlets	No.	1		
		(c) Grid inlets	No.	1		
C4.3.15		**Stockpiling of road layer materials**				
	C4.3.15.1	Asphalt material	m^3	1		
	C4.3.15.2	Crushed stone material	m^3	1		
	C4.3.15.3	Cemented material	m^3	1		
	C4.3.15.4	Natural gravel material	m^3	1		
	C4.3.15.5	Concrete pavements	m^3	1		
C4.3.16		**Stacking paving blocks and road edging**				
	C4.3.16.1	Paving blocks (80 mm interlock grey)	No.	1		
	C4.3.16.2	Precast concrete kerbing	No.	1		
	C4.3.16.3	Precast kerb inlets	No.	1		
	C4.3.16.4	Precast manholes	No.	1		
C4.3.17		**Excavate non-compliant or excess pavement layer material to spoil in sites designated by the Employer, material consisting of**				
	C4.3.17.1	Asphalt material	m^3	1		
	C4.3.17.2	Crushed stone, macadam, gravel and sand material	m^3	1		
	C4.3.17.3	Cemented material	m^3	1		
	C4.3.17.4	Concrete material	m^3	1		

C4.3.18		**Excavate non-compliant or excess pavement layer material to spoil in sites designated by the Contractor, material consisting of**				
	C4.3.18.1	Asphalt material	m^3	1		
	C4.3.18.2	Crushed stone, macadam, gravel and sand material	m^3	1		
	C4.3.18.3	Cemented material	m^3	1		
	C4.3.18.4	Concrete material	m^3	1		
C4.3.19		**Spoiling of paving blocks and road edging in spoil sites designated by the Employer**				
	C4.3.19.1	Paving blocks	m^3	1		
	C4.3.19.2	Precast and in situ concrete kerbing, edge beams and channels at precast kerbing	m^3	1		
	C4.3.19.3	Kerb and grid inlets, and other services structures	No.	1		
C4.3.20		**Spoiling of paving blocks and road edging in spoil sites designated by the Contractor**				
	C4.3.20.1	Paving blocks	m^3	1		
	C4.3.20.2	Precast and in situ concrete kerbing, edge beams and channels at precast kerbing	m^3	1		
	C4.3.20.3	Kerb and grid inlets, and other services structures	No.	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C4.4.1			**Commercial materials identified by the Employer from commercial, private or other non-commercial suppliers**				
	C4.4.1.1		Pavement layer material:				
		(a)	Type G1 material	m^3	1		
		(b)	Type G2 Material	m^3	1		
		(c)	Type G3 material	m^3	1		
		(d)	Type G4 material	m^3	1		
		(e)	Type G5 material	m^3	1		
		(f)	Type G6 Material	m^3	1		
		(g)	Type G7 material	m^3	1		
		(h)	Type G8 materila	m^3	1		
		(i)	Type G9 materials	m^3	1		
		(m)	Sand for the base and shoulder layers	m^3	1		
		(n)	Sand for a subbase layer	m^3	1		
		(o)	Sand for a selected layer	m^3	1		
		(p)	Natural or crushed gravel material for an unsealed shoulder layer	m^3	1		
		(q)	Natural or crushed gravel material for the wearing course of an unsealed road	m^3	1		
	C4.4.1.2		Macadam material:				
			(a) Coarse aggregate	m^3	1		
			(b) Fine aggregate	m^3	1		
	C4.4.1.3		Drainage blanket layer material	m^3	1		
	C4.4.1.4		Soil cement material (pre-blended by the supplier)	m^3	1		
	C4.4.1.5		Fill material in the earthworks:				
			(a) Normal or coarse fill	m^3	1		
			(b) Rock fill	m^3	1		
			(c) Sand	m^3	1		
	C4.4.1.6		Pioneer material	m^3	1		
C4.4.2			**Commercial materials identified by the Contractor from commercial, private or other non-commercial suppliers:**				
	C4.4.2.1		Pavement layer material:				
		(a)	Type G1 material	m^3	1		
		(b)	Type G2 material	m^3	1		
		(c)	Type G4 material	m^3	1		
		(d)	Type G5 material	m^3	1		
		(e)	Type G6 material	m^3	1		
		(f)	Type G7 material	m^3	1		
		(g)	Type G8 material	m^3	1		
		(h)	Type G9 material	m^3	1		
		(m)	Sand for the base and shoulder layers	m^3	1		
		(n)	Sand for a subbase layer	m^3	1		
		(o)	Sand for a selected layer	m^3	1		
		(p)	Natural or crushed gravel material for an unsealed shoulder layer	m^3	1		

		(q)	Natural or crushed gravel material for the wearing course of an unsealed road	m³	1		
	C4.4.2.2		Macadam material:				
		(a)	Coarse aggregate	m³	1		
		(b)	Fine aggregate	m³	1		
	C4.4.2.3		Drainage blanket layer material	m³	1		
	C4.4.2.4		Soil cement material (pre-blended by the supplier)	m³	1		
	C4.4.2.5		**Fill material in the earthworks:**				
		(a)	Normal or coarse fill	m³	1		
		(b)	Rock fill	m³	1		
		(c)	Sand	m³	1		
	C4.4.2.6		**Pioneer material**	m³	1		
C4.4.3			**Cost to procure commercial materials identified by the Employer from private or non-commercial sources:**				
	C4.4.3.1		Cost of procuring	prov sum	1	R150 000,00	150 000,00
	C4.4.3.2		Handling cost and profit in respect of item C4.4.3.1	%	R150 000,00		
C4.4.4			**Cementitious stabilising agents:**				
	C4.4.4.1		Cement (CEM II A-S (32.5) N)	t	1		
	C4.4.4.2		Road lime (hydrated CaCO3 or MgCO3)	t	1		
C4.4.5			**Bituminous stabilising agents:**				
	C4.4.5.1		Penetration grade bitumen (60/70 penetration grade)	t	1		
	C4.4.5.2		Emulsion stable grade (60%)	t	1		
C4.4.6			**Fillers for bituminous stabilisation**				
			Road lime (hydrated CaCO3 or MgCO3)	t	1		
			Cement (CEM II A-S (32.5) N)	t	1		
			Fly ash	t	1		
C4.4.7			**Sampling and material testing by a commercial laboratory for the stabilisation designs:**				
	C4.4.7.1		Cost of sampling and material testing	prov sum	1	R 15 000,00	15 000,00
	C4.4.7.2		Handling cost and profit in respect of item C4.4.7.1	%	R 15 000,00		
TOTAL CARRIED FORWARD TO SUMMARY							

C4.5 ALTERNATIVE MATERIALS

Item	Description	Unit	Quantity	Rate	Amount R
C4.5	ALTERNATIVE MATERIALS				
C4.5.1	Additional material investigations:				
C4.5.1.1	Cost of sampling and laboratory testing	prov sum	1,00	R 10 000,00	10 000,00
C4.5.1.2	Handling cost and profit in respect of item C4.5.1.1	%	10 000,00		
C4.5.2	Removing unwanted material from alternative materials identified by the Employer:				
C4.5.2.1	Contaminant material	prov sum	1,00	R 10 000,00	10 000,00
C4.5.2.2	Handling cost and profit in respect of item C4.5.2.1	%	10 000,00		
C4.5.2.3	Hazardous material	prov sum	1,00	R 10 000,00	10 000,00
C4.5.2.4	Handling cost and profit in respect of item C4.5.2.3	%	10 000,00		
C4.5.3	Cost to procure alternative materials identified by the Employer:				
C4.5.3.1	Cost of procuring	prov sum	1,00	R 10 000,00	10 000,00
C4.5.3.2	Handling cost and profit in respect of item C4.5.3.1	%	10 000,00		
Total Carried Forward To Summary					R 40 000,00

Item	Payment Reference			Unit	Qty	Rate (R)	Amount (R)
C5.1			**ROADBED**				
	C5.1.1		Roadbed construction and compaction:				
	C5.1.1.1		Compaction of in-situ material to 90 % of MDD	m³	1		
	C5.1.1.2		Compaction of in-situ material to 93 % of MDD	m³	1		
	C5.1.1.3		Compaction of imported material to 90 % of MDD	m³	1		
	C5.1.1.4		Compaction of imported material to 93 % of MDD	m³	1		
C5.1.2			**Excavate material to spoil from roadbed construction:**				
	C5.1.2.1		Excavate material to spoil from roadbed construction, material obtained from:				
		(a)	Soft excavation	m³	1		
		(b)	Boulder excavation Class A	m³	1		
		(c)	Boulder excavation Class B	m³	1		
		(d)	Hard excavation	m³	1		
	C5.1.2.2		Excavate material to spoil from roadbed construction, using labour enhancement, material obtained from:				
		(a)	Soft excavation	m³	1		
		(b)	Intermediate excavation	m³	1		
C5.1.3			**Excavate material to spoil sites designated by the Contractor:**				
	C5.1.3.1		Excavate material to spoil from roadbed construction, material obtained from:				
		(a)	Soft excavation	m³	1		
		(b)	Boulder excavation Class A	m³	1		
		(c)	Boulder excavation Class B	m³	1		
		(d)	Hard excavation (other than by blasting)	m³	1		
		(e)	Hard excavation (by blasting)	m³	1		
	C5.1.3.2		Excavate material to spoil from roadbed construction, using labour enhancement, material obtained from:				
		(a)	Soft excavation	m³	1		
		(b)	Intermediate excavation	m³	1		

C5.1.4			**Removal of unsuitable material to spoil:**				
	C5.1.4.1		In layer thicknesses of 200 mm and less:				
		(a)	Stable material	m³	1		
		(b)	Unstable material	m³	1		
	C5.1.4.2		In layer thicknesses exceeding 200 mm:				
		(a)	Stable material	m³	1		
		(b)	Unstable material	m³	1		
C5.1.5			**In-situ treatment of roadbed in hard material:**				
	C5.1.5.1		In-situ treatment by ripping	m³	1		
	C5.1.5.2		In-situ treatment by drilling and blasting	m³	1		
	C5.1.5.3		In-situ treatment by drilling and splitting the material using non-explosive, rock-breaking products	m³	1		
C5.1.6			**Roller-pass compaction:**				
	C5.1.6.1		Grid rollers	m²	1		
	C5.1.6.2		Pad foot vibratory rollers	m²	1		
	C5.1.6.3		Smooth drum vibratory rollers	m²	1		
	C5.1.6.5		Impact rollers	m²	1		
	C5.1.6.6		Pneumatic rollers	m²	1		
	C5.1.6.7		High energy impact compactor / roller (HEIC)	m²	1		
C5.1.7			**Construction of a roadbed trial section:**				
	C5.1.7.1		Non wetting-up collapsing soil trial section at in-situ moisture content using conventional rollers and / or HEIC	m³	1		
	C5.1.7.2		Non wetting-up collapsing soil trial section by excavating the soil to stockpile and then importing the soil from the stockpile to controlled compacted layers	m³	1		
	C5.1.7.3		Wetting-up collapsing soil trial section	m³	1		
	C5.1.7.4		Inactive and normal clay:				
		(a)	By material modification	m³	1		
		(b)	By lime modification	m³	1		
		(c)	By removal of material	m³	1		
	C5.1.7.5		**Active clay:**				
		(a)	Roadbed construction using lime	m³	1		
		(b)	Roadbed construction by removal of active clay	m³	1		
	C5.1.7.6		Roller-pass compaction	m³	1		

C5.1.8			**Construction of the roadbed in collapsing soil:**				
	C5.1.8.1		Non wetting-up collapsing soil roadbed construction at in-situ moisture content using conventional rollers	m³	1		
	C5.1.8.2		Non wetting-up collapsing soil roadbed construction at in-situ moisture content using HEIC	m³	1		
	C5.1.8.3		Non wetting-up collapsing soil roadbed construction by excavating the soil to stockpile and then importing from the stockpile to controlled compacted layers	m³	1		
	C5.1.8.4		Wetting-up collapsing soil roadbed construction	kℓ	1		
	C5.1.8.5		Water for wetting-up collapsing soil roadbed construction	kℓ	1		
C5.1.9			**Construction of roadbed comprising normal and inactive clay:**				
	C5.1.9.1		By material modification	m³	1		
	C5.1.9.2		By lime modification	m³	1		
	C5.1.9.3		By removal of material	m³	1		
C5.1.10			Construction of roadbed comprising active clay:				
	C5.1.10.1		Roadbed construction using lime	m³	1		
	C5.1.10.2		Roadbed construction by removal of active clay	m³	1		
C5.1.11			Construction of roadbed comprising a pioneer layer	m³	1		
	C5.1.12		Excavation for benches:				
	C5.1.12.1		Excavation for benches:				
		(a)	Side-cut to fill in soft material	m³	1		
		(b)	Side-cut to spoil in soft material	m³	1		
	C5.1.12.2		**Excavation for benches using labour enhancement:**				
		(a)	Side-cut to fill:				
		(i)	Soft material	m³	1		
		(ii)	Intermediate material	m³	1		
		(b)	Side-cut to spoil:				
		(i)	Soft material	m³	1		
		(ii)	Intermediate material	m³	1		
	C5.1.13		Construction of a levelling layer:				
	C5.1.13.1		Over roadbed treatment in hard material compacted to 90 % MDD	m³	1		
	C5.1.13.2		Over a constructed pioneer layer compacted to 90 % MDD	m³	1		
TOTAL CARRIED FORWARD TO SUMMARY							

C5.2 FILL

Item	Description	Unit	Quantity	Rate	Amount R
C5.2	FILL				
C5.2.1	Compiling and implementing M&U plans:				
C5.2.1.1	For fills more than 10 000 m³	No	1		
C5.2.1.2	For fills 1,0 km in length when less than 10 000 m³	No	1		
C5.2.2	Fill construction:				
C5.2.2.1	Normal fill material in compacted layer thicknesses of 200 mm and less:				
	(a) Compacted to 90 % of MDD	m³	1		
	(b) Compacted to 93 % of MDD	m³	1		
	(c) Roller-pass compaction	m²	1		
C5.2.2.2	Coarse fill material in compacted layer thicknesses exceeding 200 mm: but less than 500 mm:				
	(a) Compacted to 90 % of MDD	m³	1		
	(b) Compacted to 93 % of MDD	m³	1		
	(c) Roller-pass compaction	m²	1		
C5.2.2.3	Sand fill material in compacted layer thicknesses of 400 mm and less, compacted to 100 % of MDD	m³	1		
C5.2.2.4	Rock fill material all as per Clause A5.2.7.6	m³	1		
C5.2.2.5	Rock fill embankment toe	m³	1		
C5.2.2.6	Sand filter layer	m³	1		
C5.2.2.7	Drainage blanket layer	m³	1		
C5.2.3	Side-cut to fill compacted to 93 % of MDD in compacted layer thicknesses of 200 mm and less	m³	1		
C5.2.4	Correcting rock fills that are deficient in fine material, extra over C5.2.2.4	m³	1		
C5.2.5	Fill in sidewalk:				
C5.2.5.1	Fill material in sidewalk compacted to 93 % of MDD	m³	1		
C5.2.5.2	Fill material in sidewalk compacted to 93 % of MDD using labour enhanced methods of construction and light hand equipment	m³	1		
C5.2.6	Fill material in shoulder widening:				
C5.2.6.1	Fill material in shoulder widening compacted to 93 % of MDD	m³	1		
C5.2.6.2	Fill material in shoulder widening compacted to 93 % of MDD using labour enhancement and light hand equipment	m³	1		
C5.2.7	Construction of a trial section:				
C5.2.7.1	Normal fill	m³	1		
C5.2.7.2	Sand fill	m³	1		
C5.2.7.3	Rock fill	m³	1		

C5.2.7.4	Coarse fill	m^3	1		
C5.2.7.5	Roller-pass compaction	m^3	1		
C5.2.8	Breaking down oversize fill material on the road:				
C5.2.8.1	By normal grid rolling as per clause A5.3.7.3b) (i) to (vii)	m^2-pass	1		
C5.2.8.2	By tamping roller	m^2-pass	1		
C5.2.8.3	By pad foot vibratory roller	m^2-pass	1		
C5.2.8.4	By vibratory roller	m^2-pass	1		
C5.2.9	Removal of oversize material	m^3	1		
C5.2.10	Finishing off rock fill slopes:				
C5.2.10.1	Finishing off rock fill slopes with soft material	m^3	1		
C5.2.10.2	Finishing off rock fill slopes with soft material using labour enhancement and light, hand equipment	m^3	1		
C5.2.11	Finishing-off fill slopes, medians and interchange areas:				
C5.2.11.1	Fill slopes	m^2	1		
C5.2.11.2	Medians and interchange areas	m^2	1		
Total Carried Forward To Summary					

Item	Payment Reference			Unit	Qty	Rate (R)	Amount (R)
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:				
	C5.3.2.1		Construction of layers using conventional construction methods:				
		(a)	Lower selected subgrade layer, 150mm compacted to 93 % of MDD	m³	1		
		(b)	Lower selected subgrade layer, 150mm compacted to 95 % of MDD	m³	1		
		(c)	Upper selected subgrade layer, 150mm compacted to 95 % of MDD	m³	1		
		(d)	Upper selected subgrade layer, 150mm compacted to 97 % of MDD	m³	1		
		(e)	Sand layer, 150mm compacted to 97 % of MDD	m³	1		
		(f)	Sand layer, 150mm compacted to 100 % of MDD	m³	1		
		(g)	Gravel wearing course layer, 150mm compacted to 95 % of MDD	m³	1		
		(h)	Gravel shoulder layer, 150mm compacted to 95 % of MDD	m³	1		
		(i)	Lower subbase gravel layer (unstabilised), 150mm compacted to 95 % of MDD	m³	1		
		(j)	Lower subbase gravel layer (chemically stabilised), 150mm compacted to 95 % of MDD	m³	1		
		(k)	Upper subbase gravel layer (unstabilised), 150mm compacted to 97 % of MDD	m³	1		
		(l)	Upper subbase gravel layer (chemically stabilised), 150mm compacted to 95 % of MDD	m³	1		
		(m)	Gravel base layer (unstabilised), 150mm compacted to 100 % of MDD	m³	1		
		(n)	Gravel base layer (chemically stabilised), 150mm compacted to 97 % of MDD	m³	1		
		(o)	G5B crushed rock / boulder subbase layer, 150mm compacted to 97 % of MDD	m³	1		
		(p)	G5B crushed rock / boulder base layer, 150mm compacted to 100 % of MDD	m³	1		
		(q)	G5A crushed rock / boulder subbase layer, 150mm compacted to 97 % of MDD	m³			
		(r)	G5A crushed rock / boulder base layer, 150mm compacted to 100 % of MDD	m³	1		
		(s)	G4A crushed rock / boulder lower subbase layer (unstabilised or chemically stabilised), 150mm compacted to 95 % of MDD	m³	1		
		(t)	G4A crushed rock / boulder upper subbase layer (unstabilised or chemically stabilised), 150mm compacted to 97 % of MDD	m³	1		
		(u)	G4A crushed rock / boulder subbase layer compacted to 97 % of MDD	m³	1		
		(v)	G3 crushed stone subbase layer (unstabilised or chemically stabilised), 150mm compacted to 97 % of MDD	m³	1		
		(w)	G3 crushed stone base layer, 150mm compacted to 85 % of BD	m³	1		
		(x)	G2 crushed stone base layer, 150mm compacted to 88 % of RD (Category C / D roads)	m³	1		
		(y)	G2 crushed stone base layer, 150mm compacted to 88 % of AD (Category A / B roads)	m³	1		
		(z)	G1 crushed stone base layer, 150mm compacted to 86 % of AD (Category C / D roads)	m³	1		
		(aa)	G1 crushed stone base layer, 150mm compacted to 88 % of AD (Category A / B roads)	m³	1		
		(bb)	Bound macadam layer, 150mm compacted to 90 % of AD	m³	1		
		(cc)	PMPL wet lean-mix concrete layer, 150mm	m³	1		
	C5.3.2.2		Construction of layers using labour enhancement:				
		(a)	Lower selected subgrade layer, 150mm compacted to 93 % of MDD	m³	1		
			Upper selected subgrade layer, 150mm compacted to 95 % of MDD				

		(b)		m^3	1		
		(c)	Sand layer, 150mm compacted to 97 % of MDD	m^3	1		
		(d)	Sand layer, 150mm compacted to 100 % of MDD	m^3	1		
		(e)	Gravel wearing course layer, 150mm compacted to 95 % of MDD	m^3	1		
		(f)	Gravel shoulder layer, 150mm compacted to 95 % of MDD	m^3	1		

		(g)	Lower gravel subbase layer, 150mm compacted to 95 % of MDD	m³	1		
		(h)	Upper gravel subbase layer, 150mm compacted to 97 % of MDD	m³	1		
		(i)	Gravel base layer, 150mm compacted to 98 % of MDD	m³	1		
		(j)	Gravel base layer, 150mm compacted to 100 % of MDD	m³	1		
		(k)	Bound macadam layer, 150mm compacted to 90 % of AD	m³	1		
		(l)	Soil cement or soilcrete, 150mm wet mixture as per clause A4.1.5.14	m³	1		
		(m)	Soil cement or soilcrete, 150mm stiff mixture as per clause A4.1.5.14	m³	1		
		(n)	Emulsion treated base material (G1 or G2 material), 150mm as per clause A4.1.5.15	m³	1		
	C5.3.3		Construction of crushed stone base supplied by the Employer	m³	1		
	C5.3.4		Deductions for G1 crushed stone base material supplied by the Employer	t	1		
	C5.3.5		Breaking down oversize layer material on the road:				
	C5.3.5.1		By normal grid rolling as per clause A5.3.7.3b)	m²-pass	1		
	C5.3.5.2		By tamping roller	m²-pass	1		
	C5.3.5.3		By pad foot vibratory roller	m²-pass	1		
	C5.3.5.4		By vibratory roller	m²-pass	1		
	C5.3.5.5		By any other roller type	m²-pass	1		
	C5.3.6		Removal of oversize material	m³	1		
	C5.3.7		Recombining recovered material	m³	1		
	C5.3.8		Processing of coarse gravel subbase or base layers	m³			
	C5.3.9		Construction of a trial section:				
	C5.3.9.1		Construction of a trial section using conventional methods of construction:				
		(a)	Stabilised gravel layer, 150mm trial section	m³	1		
		(b)	Crushed stone subbase layer, 150mm trial section	m³	1		
		(c)	Crushed stone base layer, 150mm trial section	m³	1		
		(d)	PMPL layer, 150mm trial section	m³	1		
		(e)	Bound macadam layer, 150mm trial section	m³	1		
	C5.3.9.2		Construction of a trial section using labour enhancement methods:				

		(a)	Stabilised gravel layer, 150mm trial section	m³	1		
		(b)	Gravel base layer, 150mm trial section	m³	1		
		(c)	Bound macadam layer, 150mm trial section	m³	1		
C5.3.10			Removal of a completed trial section:				
	C5.3.10.1		Stabilised layer	m³	1		
	C5.3.10.2		PMPL layer	m³	1		
	C5.3.10.3		Crushed stone layer	m³	1		
C5.3.11			**Riding quality measurements:**				
	C5.3.11.1		Using a 3,0 m straight edge	km	1		
	C5.3.11.2		Using a rolling straight edge	km	1		
	C5.3.11.3		Using an inertial profilometer	km	1		
	C5.3.12		Surface regularity payment adjustments	prov sum	1	15 000,00	15 000,00
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C5.4: Pricing Data
Section C5.4: Stabilisation

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C5.4.2		**Chemical stabilisation:**				
	C5.4.2.1	Chemical stabilisation *(150mm)* of pavement layers *(subbase)*	m^3	1		
	C5.4.2.2	Chemical stabilisation (150mm) of pavement layers (subbase) using labour enhanced methods of construction	m^3	1		
C5.4.5		**Cementitious stabilisation agents for pavement layers:**				
	C5.4.5.1	Addition of cementitious stabilisation agents for pavement layers				
		(a) Cement (for pavement layer)	ton	1		
		(b) Lime	ton	1		
	C5.4.5.2	Addition of cementitious stabilisation agents for pavement layers and spreading the agent using bags and labour enhancement methods.				
		(a) Cement (for subbase layer), CEM II A-S (32.5) N	ton	1		
		(b) Road Lime (hydrated CaCO3 or MgCO3)	ton	1		
	C5.4.6	Addition of cementitious stabilisation agents for a PMPL layer:				
	C5.4.6.1	(a) Cement (for subbase layer), CEM II A-S (32.5) N	t	1		
	C5.4.6.2	(b) Road Lime (hydrated CaCO3 or MgCO3)	t	1		
C5.4.7		**Bituminous stabilisation of pavement layers**				
	C5.4.7.1	Bituminous stabilisation *(150mm)* of payment layers *(base or subbase layer)*	litre	1		
	C5.4.7.2	Bituminous stabilisation (150mm) of payment layers (base or subbase layer) using labour enhanced methods of construction	litre	1		
C5.4.8		**Bituminous stabilisation agent :**				
	C5.4.8.1	60% anionic emulsion	litre	1		
	C5.4.8.2	60% cationic emulsion	litre	1		
	C5.4.8.3	Foamed bitumen	litre	1		
	C5.4.9.2	Filler for bituminous stabilisation spreading the agent or filler using labour enhanced methods of construction				
		Road lime (hydrated CaCO3 or MgCO3)	t	1		
		Cement (CEM II A-S (32.5) N)	t	1		
		Fly ash	t	1		
C5.4.10		**Provision and application of water for curing**	kilolitre	1		
C5.4.11		**Curing by covering with the subsequent layer**	m²	1		
	C5.4.12	Curing with a membrane:				
	C5.4.12.1	Cut back bitumen	ℓ	1		
	C5.4.12.2	Inverted bitumen emulsion	ℓ	1		
	C5.4.12.3	Spray grade emulsion	ℓ	1		
	C5.4.12.4	Curing compound for PMPL layers	ℓ	1		
	C5.4.13	Trial section for a PMPL layer	m²	1		
	C5.4.14	Trial section for a chemically stabilised layer	m³	1		
	C5.4.15	Trial section for a bituminously stabilised layer	m²	1		
	C5.4.16	Mechanical modification	m³	1		
	C5.4.17	Addition of a soil binder	m³	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
		RECONSTRUCTION OF PAVEMENT LAYERS				
	C5.5.1	Compiling and implementing M&U plans for the reconstruction of an existing road pavement	No	1		
	C5.5.2	Reconstruction preparatory work:				
	C5.5.2.1	Undivided carriageway:				
		(a) Uniform section from km 0.00 to km 10.0	km	1		
		(b) Uniform section from km 10.01 to km 20.0	km	1		
	C5.5.2.2	Divided carriageway:				
		(a) Uniform section from km 0.00 to km 10.0	km	1		
C5.5.5		Construction of a trial section using a recycler	m^3	1		
C5.5.6		Construction of a trial section using conventional construction equipment	m^3	1		
C5.5.7		**Pre-milling existing wearing course material:**				
	C5.5.7.1	Pre-milling an asphalt wearing course (depth of pre-milling varies between 10mm and 40mm maximum)	m^2	1		
	C5.5.7.2	Pre-milling a seal wearing course (depth of pre-milling varies between 10 mm and 25 mm)	m^2	1		
C5.5.8		**Pre-pulverising material in the existing pavement**				
	C5.5.8.1	Asphalt wearing course *(max. 80mm)*	m^3	1		
	C5.5.8.2	Crushed stone base *(150mm)*	m^3	1		
	C5.5.8.3	Stabilised crushed stone (150mm)	m^3	1		
	C5.5.8.4	Stabilised gravel layer *(150mm)*	m^3	1		
C5.5.9		Temporarily blading layer material to windrow	m^3	1		
C5.5.10		**Roller-pass compaction of an exposed pavement layer**				
	C5.5.10.1	Smooth drum vibratory rollers	m^2	1		
	C5.5.10.3	Pneumatic-tyred rollers	m^2	1		
C5.5.11		Watering the exposed pavement layer	kilolitre	1		
C5.5.12		Removal of surplus material from site	m^3	1		
C5.5.13		Cross mixing of material (150 mm)	m^3	1		
C5.5.14		**In-situ reconstruction of a pavement layer using a recycler to construct a stabilised selected layer**				
	C5.5.14.1	Chemically stabilised selected layer compacted to 95 % of MDD:				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.14.2	**Emulsion stabilised selected layer compacted to 95 % of MDD:**				

		(a)	Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b)	Using cemented material compacted to 150 mm thick	m^3	1		
		(c)	Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d)	Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.14.3		**Foam stabilised subbase layer compacted to 97% of MDD**				

		(a) Using non-cemented material compacted to 150 mm thick	m3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m3	1		
C5.5.15		**In-situ reconstruction of a pavement layer using a recycler to construct a stabilised subbase layer**				
	C5.5.15.1	**Chemically stabilised subbase layer compacted to 97% of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick *)*	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.15.2	**Emulsion stabilised subbase layer compacted to 97% of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick.	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.15.3	**Foam stabilised subbase layer compacted to 97% of MDD**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		

C5.5.16		**In-situ reconstruction of a pavement layer using a recycler to construct a stabilised base layer**				
	C5.5.16.1	Chemically stabilised base layer compacted to 100% of MDD:				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	cubic metre (m^3)	1		
	C5.5.16.2	**Emulsion stabilised subbase layer compacted to 102% of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.16.3	Foam stabilised subbase layer compacted to 102% of MDD				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
C5.5.17		**In-situ reconstruction of a pavement layer using conventional construction equipment to construct a stabilised selected layer**				
	C5.5.17.1	**Chemically stabilised selected layer compacted to 95 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		

	C5.5.17.2	**Emulsion stabilised selected layer compacted to 95 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.17.3	**Foam stabilised selected layer compacted to 95 % of MDD**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
C5.5.18		**In-situ reconstruction of a pavement layer using conventional construction equipment to construct a stabilised subbase layer**				
	C5.5.18.1	**Chemically stabilised subbase layer compacted to 97 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick *(G6 classified material)*	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.18.2	**Emulsion stabilised subbase layer compacted to 97 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
	C5.5.18.3	**Foam stabilised subbase layer compacted to 97 % of MDD**				
		(a) Using non-cemented material compacted to 150 mm thick *(specify)*	m^3	1		
		(b) Using cemented material compacted to 150 mm thick	m^3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m^3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m^3	1		
C5.5.19		**In-situ reconstruction of a pavement layer using conventional construction equipment to construct a stabilised base layer**				
	C5.5.19.1	**Chemically stabilised base layer compacted to 98 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick (G5 classified material)	m3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		

		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m3	1		
	C5.5.19.2	**Emulsion stabilised base layer compacted to 102 % of MDD:**				
		(a) Using non-cemented material compacted to 150 mm thick (G2 classified material)	m3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		

		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m3	1		
	C5.5.19.3	**Foam stabilised base layer compacted to 102 % of MDD**				
		(a) Using non-cemented material compacted to 150 mm thick (G2 classified material)	m3	1		
		(b) Using cemented material compacted to 150 mm thick	m3	1		
		(c) Using a combination of non-cemented and cemented material compacted to 150 mm thick	m3	1		
		(d) Using pre-pulverised material (as per item C5.5.8) compacted to 150 mm thick	m3	1		
C5.5.20		**Material shortfall or make-up material**				
	C5.5.20.1	For selected layer	m^3	1		
	C5.5.20.2	For subbase layer	m^3	1		
	C5.5.20.3	For base layer	m^3	1		
C5.5.21		**Finishing the stabilised layer**				
	C5.5.21.1	**Slush trial section with:**				
		(a) Water	m^2	1		
		(b) Diluted emulsion	m^2	1		
	C5.5.21.2	Slush reconstructed section with:				
		(a) Water	m^2	1		
		(b) Diluted emulsion	m^2	1		
	C5.5.21.3	Application of a diluted emulsion spray	litre (ℓ)	1		
C5.5.22		**Excavate pavement layers for patching in existing pavements**				
	C5.5.22.1	Excavate the following layers:				
		(a) Asphalt layers with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(b) Cemented layers with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(c) Any other layers *(base)* with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		

	C5.5.22.2	Excavate the following layers using labour enhanced methods of construction:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(b) 'Cemented layers with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(c) Any other layers *(base)* with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
C5.5.23		**Edge break cutting back when narrower than 250mm**				
	C5.5.23.1	Edge break cutting back when narrower than 250mm	m	1		
	C5.5.23.2	Edge break cutting back when narrower than 250mm using labour enhanced methods of construction	m	1		
C5.5.24		**Edge break patching when narrower than 250mm**		1		
	C5.5.24.1	Edge break patching using emulsion treated base (ETB) material to a maximum depth of 150mm	m	1		
	C5.5.24.2	Edge break patching using labour enhanced methods of construction and ETB to a maximum depth of 150mm	m	1		
C5.5.25		Compacting the floor of the excavation for patching	m^2	1		
C5.5.26		**Backfill patching excavations in existing pavements:**				

	C5.5.26.1	**Backfill with the following pavement layer material:**				
		(a) Chemically stabilised pavement layer material *(base, from commercial , 3 % stabilising agent and the 98% of MDD)* for a patch with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(b) Emulsion treated base, or ETB pavement material *(base layer, from commercial , the components as per Clause A4.1.5.14, and the98 % of MDD)* for a patch with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
C5.5.26.2		**Backfill with the following pavement layer material using labour enhanced methods of construction:**				
		(a) Chemically stabilised pavement layer material *(base, from commercial , 3 % stabilising agent and the 98% of MDD)* for a patch with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
		(b) Emulsion treated base, or ETB pavement material *(base layer, from commercial , the components as per Clause A4.1.5.14, and the98 % of MDD)* for a patch with a surface area:				
		(i) Not exceeding 20 m^2, including for edge repairs wider than 250mm	m^3	1		
		(ii) Exceeding 20 m^2 but not exceeding 50 m^2, including for edge repairs wider than 250mm	m^3	1		
		(iii) Exceeding 50 m^2 but not exceeding 100 m^2, including for edge repairs wider than 250mm.	m^3	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C6.2: Pricing Data
Section C6.2: SEGMENTAL BLOCK PAVING LAYERS

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
		SEGMENTAL BLOCK PAVING LAYERS				
C6.2.1		**Segmental block paving**				
	C6.2.1.1	Concrete block paving (80 mm thick interlock class 2.6 40 MPa)	m²	1		
		Concrete block paving				
		Class 30, Type S-A, 80mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
		Class 25, Type S-A, 80mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
		Class 25, Type S-A, 60mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
		220*110*50mm Corobrick Cedarberg or similar approved for pedestrian crossings	m²	1		
		220*110*50mm Corobrick Nutmeg or similar approved for pedestrian crossings	m²	1		
		110*110*50mm Charcoal Hugenot Cobble or similar approved for pedestrian crossings	m²	1		
	C6.2.2	Cast in-situ concrete edge and intermediate beams	m³	1		
C6.2.3		**Provision and application of approved herbicide and ant poison.**				
	C6.2.3.1	Provision of materials	Prime cost sum	1	R20 000	R20 000
	C6.2.3.2	Contractor's charges and profit added to the prime cost sum	**%**	R20 000		
C6.2.4		**Re sanding of joints in segmental block paving**				
	C6.2.4.1	Concrete block paving (80 mm thick interlock class 2.6 40 MPa)	m²	1		
		Class 30, Type S-A, 80mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
		Class 25, Type S-A, 80mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
		Class 25, Type S-A, 60mm Thick (SANS approved), Colour: Cement, Placed: Herringbone Bond pattern)	m²	1		
TOTAL CARRIED FORWARD TO SUMMARY						R 20 000,00

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)

C7.1	REPLACEMENT OF EXISTING JOINT SEALANT				
Item	Description	Unit	Quantity	Rate	Amount R
C7.1	REPLACEMENT OF EXISTING JOINT SEALANT				
C7.1.1	Replacing seal on longitudinal hinge joints in existing concrete pavement as follows:				
C7.1.1.1	Removal of existing seal and backing material	m	1		
C7.1.1.2	Reaming of existing joints	m	1		
C7.1.1.3	Bevelling of one side of the joint to a dimension of 10 mm X 10 mm	m	1		
C7.1.1.4	Bevelling of both sides of the joint to a dimension of 10 mm X 10 mm	m	1		
C7.1.1.5	Installation of backing material in saw cut joints (to fit saw cut dimensions)	m	1		
C7.1.1.6	Installation of cold pour sealant	ℓ	1		
C7.1.2	Costs incurred due to repair and monitoring in terms of Product Performance Guarantee System (PPGS)	lump sum	1		
Total Carried Forward To Summary					
C7.2	REPAIR TO CONCRETE PANELS AND CONCRETE ADJACENT TO UNCONTROLLED CRACKS AND EXISTING JOINTS				
C7.2.1	Transverse and longitudinal crack and joint repairs incorporating the following treatments:				
C7.2.1.1	Routing of active cracks	m	1		
C7.2.1.2	Routing of non-active cracks	m	1		
C7.2.1.3	Bevelling of one side of the crack	m	1		
C7.2.1.4	Bevelling of both sides of the crack	m	1		
C7.2.1.5	Saw cutting of cracks and joints in one operation	m	1		
C7.2.1.6	Filling joint reservoir with cementitious non-shrink grout	kg	1		
C7.2.1.7	Installation of backing material in saw cut joints (to fit saw cut dimensions)	m	1		
C7.2.1.8	Installation of cold pour sealant	ℓ	1		
C7.2.2	Grouting of cracks	m	1		
C7.2.3	Cross-stitching of longitudinal and transverse joints and cracks:				
C7.2.3.1	Saw cutting of slots in concrete pavement	No	1		
C7.2.3.2	Application of wet-to-dry epoxy to vertical faces and top of existing concrete	ℓ	1		
C7.2.3.3	Installation of 16 mm diameter deformed tie-bar including application of self-levelling pourable epoxy grout and 7,1 mm aggregate	No	1		
C7.2.3.4	Filling of slot with high strength concrete Class 50 / 7,1 mm	m^3	1		
C7.2.4	Restoration of load transfer at transverse contraction joints:				
C7.2.4.1	Saw cutting and preparation of slots in concrete pavement	No	1		
C7.2.4.2	Installation of new dowel bars as specified including application of bond breaker on free end, end caps	No	1		
C7.2.4.3	Filling of slot with high strength concrete Class 50 / 7,1 mm	No	1		
C7.2.5	Pre-treating existing dowels:				
C7.2.5.1	Free ends in existing concrete	No	1		
C7.2.5.2	Free ends in new concrete	No	1		
C7.2	REPAIR TO CONCRETE PANELS AND CONCRETE ADJACENT TO UNCONTROLLED CRACKS AND EXISTING JOINTS				
C7.2.6	Texturing and curing the concrete pavement:				

C7.2.6.1	Burlap-dragged and grooved texture	m^3	1		
C7.2.6.2	Curing:				
	(a) Paving train constructed	m^3	1		
C7.2.7	Variation in the rate of application of the curing compound	ℓ	1		
C7.2.8	Steel reinforcement in concrete pavements:				
C7.2.8.1	Mild steel bars	t	1		
C7.2.8.2	High tensile steel bars	t	1		
C7.2.8.3	Welded steel fabric	kg	1		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
C7.3	REMOVAL AND REINSTATEMENT OF EXISTING CONCRETE LAYERS				
C7.3.1	Removal of concrete in rehabilitation work:				
C7.3.1.1	Concrete without reinforcing	m³	1		
C7.3.1.2	Reinforced concrete	m³	1		
C7.3.1.3	Underlying layers	m³	1		
C7.3.2	Full depth repairs using hand placed concrete with CEM I 52,5	m³	1		
C7.3.3	Partial Depth Repairs using hand placed fine concrete	m³	1		
C7.3.4	Tie bars and dowels for full depth repairs:				
C7.3.4.1	Tie bars	No	1		
C7.3.4.2	Dowel bars	No	1		
C7.3.5	Partial Depth Repairs using hand placed acrylic resin grout	m²	1		
C7.3.6	Reinstating the subbase with lean mix concrete	m³	1		
C7.3.7	Removal of exposed stitches in concrete pavement	No	1		
C7.3.8	Sawing of concrete in rehabilitation works to different depths:				
C7.3.8.1	State depth in mm	m	1		
C7.3.9	Removal of existing supporting layers in rehabilitation work:				
C7.3.9.1	Granular material	m³	1		
C7.3.9.2	Cemented material	m³	1		
C7.3.9.3	Asphalt material	m³	1		
C7.3.10	Preparing the underlying layers after the concrete has been removed:				
C7.3.10.1	Re-compaction of remaining underlying layers	m²	1		
C7.3.10.2	Replacement of granular layers	m²	1		
C7.3.10.3	Replacement of stabilised layers	m²	1		
C7.3.10.4	Replacement of supporting layers with 10 MPa lean mix concrete	m²	1		
C7.3.10.5	Replacement of subbase with hot mix asphalt	t	1		
C7.3.10.6	Levelling the surface with coarse slurry (micro surfacing)	m³	1		
C7.3.11	Reinstatement of concrete layers (Excluding texturing and curing):				
C7.3.11.1	Replacement of concrete in JCP pavements	m²	1		
C7.3.11.2	Replacement concrete in CRCP pavements	m²	1		
C7.3.12	Pre-treating existing dowels:				
C7.3.12.1	Free ends in existing concrete	No	1		
C7.3.12.2	Free ends in new concrete	No	1		
C7.3.13	Texturing and curing the concrete pavement:				
C7.3.13.1	Burlap-dragged and texture (groove or broom finish)	m²	1		
C7.3.13.2	Curing	m²	1		
C7.3.14	Variation in the rate of application of the curing compound	ℓ	1		
C7.3.15	Steel reinforcement in concrete pavements:				
C7.3.15.1	Mild steel bars	t	1		
C7.3.15.2	Tensile steel bars	t	1		
C7.3.15.3	Welded steel fabric	kg	1		

C7.3.16	Temporary partial depth repairs using asphalt materials	m²	1		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
C7.4	REINSTATEMENT OF SLAB SUPPORT BY GROUT INJECTION				
C7.4.1	Sub-sealing of the concrete pavement	50kg pkts	1		
Total Carried Forward To Summary					R -

Item	Description	Unit	Quantity	Rate	Amount R
C7.5	REINSTATEMENT OF RIDING QUALITY				
C7.5.1	Grinding of existing concrete pavement surfaces	m²	1		
Total Carried Forward To Summary					

Item	Description	Unit	Quantity	Rate	Amount R
C7.6	REINSTATEMENT OF SURFACE TEXTURE				
C7.6.1	Retexturing of concrete surfaces (transverse or longitudinal)	m²	1		
Total Carried Forward To Summary					R -

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C8.1: Pricing Data							
Section C8.1: Prime Coat							
Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C8.1.1			**Prime coat:**				
	C8.1.1.1		MC -10 cut-back bitumen	litre	1		
	C8.1.1.2		MC -30 cut-back bitumen	litre	1		
	C8.1.1.3		Inverted bitumen emulsion	litre	1		
	C8.1.1.4		Quick drying e-Prime	litre	1		
C8.1.2			**Aggregate for blinding:**				
	C8.1.2.1		Natural sand	m^3	1		
	C8.1.2.2		Crusher sand	m^3	1		
C8.1.3			Extra over item C8.1.1 for applying the prime coat accessible only to hand-held or light equipment	litre	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.2: Pricing Data
Section C8.2:COVER SPRAYS, FOG SPRAYS AND REJUVENATION SPRAYS

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.2.1		**Cover sprays, fog sprays and rejuvenation sprays**				
	C8.2.1.1	65 % Cationic spray grade emulsion				
		(a) 65%/35% water dilution	litre	1		
	C8.2.1.2	60 % Anionic stable grade emulsion				
		(a) 60%/30% water dilution	litre	1		
	C8.2.1.3	Cutback Inverted bitumen emulsion	litre	1		
	C8.2.1.4	Certified rejuvenator (2016/516: The Road Rejuvenator certified by Agrément SA)	litre	1		
C8.2.2		**Extra over item C8.2.1 for labour enhanced application**				
	C8.2.2.1	**65 % Cationic spray grade emulsion**				
		(a) 65%/35% water dilution	litre	1		
	C8.2.2.2	**60 % Anionic stable grade emulsion**				
		(a) 60%/40% water dilution	litre	1		
	C8.2.2.3	Cutback inverted bitumen emulsion	litre	1		
	C8.2.2.4	Certified rejuvenator (2016/516: The Road Rejuvenator certified by Agrément SA)	litre	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.3: Pricing Data
Section C8.3:TEXTURE TREATMENT

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.3.1		**Texture treatment**				
	C8.3.1.1	Application of slurry for texture improvement, applied by hand (fine slurry medium aggregate, stable grade 60% emulsion, 1.5% 32.5N cement)	m³	1		
	C8.3.1.2	Application of slurry for texture improvement, applied by spreader box (fine slurry medium aggregate, stable grade 60% emulsion, 1.5% 32.5N cement)	m³	1		
	C8.3.1.3	Application of microsurfacing for texture improvement, applied by spreader box (fine slurry coarse aggregate, rapid setting cationic emulsions, 1.5% 32.5N cement)	m³	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.4: Pricing Data
Section C8.4: Rut and/or depression correction

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.4.1		**Rut and/or Depression correction (screeding)**				
	C8.4.1.1	Bond coat using 50% diluted stable grade bitumen emulsion	litre	1		
	C8.4.1.2	Correction material				
		(a) Continuously-graded asphalt *(10mml maximum aggregate size and 70/100)*	ton	1		
		(c) Cold applied asphalt (Agrèment SA certified for specific class as specified)	ton	1		
		(d) Coarse slurry *(meduim grade and anionic type)*	m^3	1		
		(e) Microsurfacing	m^3	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.5: Pricing Data
Section C8.5: Standard crack sealing

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.5.1		**Standard crack sealing**				
	C8.5.1.1	Cleaning cracks				
		(a) Cleaning crack with cold compressed air	m	1		
		(b) Cleaning crack with hot compressed air	m	1		
	C8.5.1.2	Applying herbicides for sealing cracks	litre	1		
	C8.5.1.3	Priming (MC-30 cut-back bitumen)	litre	1		
	C8.5.1.4	Sealing the cracks				
		(a) Sealing using *(Anionic emulsion)*	litre	1		
	C8.5.1.5	Heating of surface before rolling	m	1		
	C8.5.1.6	Rolling the cracks	m	1		
TOTAL CARRIED FORWARD TO SUMMARY						R -

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.6: Pricing Data
Section C8.6: GEOSYNTHETIC CRACK SEALING

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.6.1		**Geosynthetic crack sealing**				
	C8.6.1.1	Sealing cracks with 200 mm wide geosynthetic (A4 bidim)	m	1		
	C8.6.1.2	Sealing cracks with geosynthetic over areas (modified bitumen emulsion - anionic)	m²	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.7: Pricing Data
Section C8.7: Planning

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.7.1		**Planing**				
	C8.7.1.1	Planing of road surface *(up to 10 mm)*	m^2	1		
	C8.7.1.2	Fog spraying on planed surfaces	litre	1		
	C8.7.1.3	Hand spraying	litre	1		
	C8.7.1.4	Spraying with mechanical equipment	litre	1		
	C8.7.1.5	Rolling the planed surface	m^2-pass	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.8: Pricing Data
Section C8.8: Patching and edge repair

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.8.1		**Saw cutting pavement layers for patching**				
	C8.8.1.1	**Asphalt or bituminous surfacing to an average depth**				
		(a) Not exceeding 50mm	m	1		
		(b) Exceeding 50mm but not exceeding 100mm	m	1		
		(c) Exceeding 100 mm	m	1		
	C8.8.1.2	**Cemented pavement layers to an average depth**				
		(a) Not exceeding 100 mm	m	1		
		(b) Exceeding 100 mm but not exceeding 200 mm	m	1		
		(c) Exceeding 200 mm	m	1		
	C8.8.1.3	**Granular layers to an average depth**				
		(a) Not exceeding 100 mm	m	1		
		(b) Not exceeding 200 mm	m	1		
		(c) Exceeding 200 mm	m	1		
C8.8.2		**Excavation in existing pavements for patching (non-milling)**				
	C8.8.2.1	**Asphalt layers**				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	m^3	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	m^3	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	m^3	1		
		(d) Exceeding 100 m²	m^3	1		
	C8.8.2.2	**Cemented layers**				
		(a) Not exceeding 10 m2 including for edge repairs wider than 250 mm	m^3	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250 mm	m^3	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250 mm	m^3	1		
		(d) Exceeding 100 m²	m^3	1		

	C8.8.2.3	**Base Layer**				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	m^3	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250 mm	m^3	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250 mm	m^3	1		
		(d) Exceeding 100 m²	m^3	1		
C8.8.3		**Compacting the floor of excavations for patching** *(* 93% Modified AASHTO compaction*)*	m^2	1		
C8.8.4		**Backfilling of excavations for patching with:**				
	C8.8.4.1	**Chemically stabilized pavement material *(cemented subbase - C4)* for a patch with a surface area:**				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	m^3	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	m^3	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	m^3	1		
		(d) Exceeding 100 m²	m^3	1		
	C8.8.4.2	**Bitumen Stabilised Material (G2 emulsion treated base compacted to 100% of maximum dry density) for a patch with a surface area:**				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	m^3	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	m^3	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	m^3	1		
		(d) Exceeding 100 m²	m^3	1		
	C8.8.4.3	**Asphalt for a patch with a surface area *(cold mix medium grade asphalt at 2.2-2.7 ton/m³)***				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	ton	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	ton	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	ton	1		
		(d) Exceeding 100 m²	ton	1		
		Asphalt for a patch with a surface area *(hot mix medium grade asphalt at 2.2-2.7 ton/m³)*				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	ton	1		
		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	ton	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	ton	1		
		(d) Exceeding 100 m²	ton	1		
	C8.8.4.4	**Granular base material (G2 classified material at 100% modified AASHTO) for a patch with a surface area**				
		(a) Not exceeding 10 m² including for edge repairs wider than 250mm	ton	1		

		(b) Exceeding 10 m² but not exceeding 50 m² including for edge repairs wider than 250mm	ton	1		
		(c) Exceeding 50 m² up to 100 m² including for edge repairs wider than 250mm	ton	1		
		(d) Exceeding 100 m²	ton	1		

C8.8.5		Geosynthetic patching				
	C8.8.5.1	**Sealing joints with geosynthetic strips (3-5% latex-modified cationic emulsion at 1 meter width)**	m	1		
C8.8.6		**Repairing edge breaks in surfacing**				
	C8.8.6.1	Cutting back the edges of the existing surfacing for the repairing of edge breaks	m	1		
	C8.8.6.2	Prime coat *(MC 30 Cutback bitumen)*	litre	1		
	C8.8.6.3	**Reconstructing edges using:**				
		(a) Continuously-graded hot asphalt *(meduim graded)*	ton	1		
		(b) Continuously-graded cold asphalt (Agrèment SA certified class 1 at 2.2-2.5ton/m³)	ton	1		
		(c) Bitumen Stabilised Material (emulsion treated base at 100% maximum dry density)	m³	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C8.9: Pricing Data
Section C8.9: REPAIR OF SURFACE DEFECTS

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C8.9.1		**Heating of the road surface**				
	C8.9.1.1	**Establishing of heating apparatus on site for softening of the road surface**	Lump sum	1		
	C8.9.1.2	Heating of road surface	m²	1		
C8.9.2		Aggregate for treatment of bleeding sections				
	C8.9.2.1	Heated aggregate (13.2 ,mm)	m³	1		
	C8.9.2.2	**Precoating of aggregate (Nominal precoating application by plant and 12 litre/m3)**	m³	1		
C8.9.3		Application and rolling in of heated aggregate	m²	1		
C8.9.4		Trial sections for heating, application and rolling in of heated aggregate	m²	1		
C8.9.5		Water cutting:				
	C8.9.5.1	Establishing of water cutting equipment on site	lump sum	1		
	C8.9.5.2	Water cutting of the road surface	m²	1		
C8.9.6		Trial sections for water cutting	m²	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
	C9.1	**ASPHALT LAYERS**				
C9.1.1		Asphalt mix designs:				
	C9.1.1.1	Stone skeletal mixes:				
		(a) Continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size	lump sum	1		
		(b) Continuously graded asphalt surfacing, medium grade, 20mm thick (60/70 penetration grade bitumen)	lump sum	1		
		(c) Continuously graded asphalt surfacing, medium grade, 30mm thick (60/70 penetration grade bitumen)	lump sum	1		
		(d) Continuously graded asphalt surfacing, medium grade, 40mm thick (60/70 penetration grade bitumen)	lump sum	1		
	C9.1.1.2	**Sand skeletal mixes:**				
		(a) Continuously graded base or surfacing, 100 - 150mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size	lump sum	1		
		(b) Semi-gap graded asphalt surfacing, medium grade, 20 - 40 mm thick (60/70 penetration grade bitumen)	lump sum	1		
		(c) Gap graded asphalt surfacing, medium grade, 20 - 40 mm thick (60/70 penetration grade bitumen)	lump sum	1		
C9.1.2		Construction of trial sections:				
	C9.1.2.1	**Asphalt layers, continuously graded asphalt, medium grade, 30mm thick (60/70 penetration grade bitumen) placed by a paver**	m²	1		
	C9.1.2.2	Removal of trial section where so instructed by the Engineer	m²	1		
C9.1.3		Application of bond coat:				
	C9.1.3.1	Stable – grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributer	ℓ	1		
	C9.1.3.2□	Applied in restricted areas using a portable pressure sprayer	ℓ	1		
	C9.1.3.3	Applied by hand using brushes on all exposed transverse and longitudinal construction joints	ℓ	1		
C9.1.4		**Asphalt base**				
	C9.1.4.1	New Construction:				
		(a) Stone skeletal mix - continuously graded base or surfacing, up to 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size by a paver	m²	1		
	C9.1.4.2	**Rehabilitation**				
		(a)Stone skeletal mix – continuously graded as defined *(80mm, 50/70 pen)*	ton	1		
		(b) Stone skeletal mix - continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size by a paver	ton	1		
C9.1.5		**Asphalt surfacing**				
	C9.1.5.1	New construction:				
		(a) Stone skeletal mix – continuously graded asphalt, medium grade, 20mm thick (60/70 penetration grade bitumen) by a paver	m²	1		
		(b) Stone skeletal mix – continuously graded asphalt, medium grade, 30mm thick (60/70 penetration grade bitumen) by a paver	m²	1		

		(c) Stone skeletal mix – continuously graded asphalt, medium grade, 40mm thick (60/70 penetration grade bitumen) by a paver	m²	1		
	C9.1.5.2	**Rehabilitation**				
		(a) Stone skeletal mix – continuously graded asphalt, medium grade, 20mm thick (60/70 penetration grade bitumen) by a paver	ton	1		
		(b) Stone skeletal mix – continuously graded asphalt, medium grade, 30mm thick (60/70 penetration grade bitumen) by a paver	ton	1		
		(c) Stone skeletal mix – continuously graded as defined *(40mm,50/70 pen)*	ton	1		
		(d) Stone skeletal mix – continuously graded as defined *(80mm,50/70 pen)*	ton	1		
		(e) Stone skeletal mix - continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size by a paver	ton	1		
C9.1.6		Extra over pay items C.9.1.4.1 and C.9.1.5.1 for placing small quantities of asphalt of less than 10 tons specially produced as specified in terms of Clause A9.1.7.1d)	t	1		
C9.1.7		Placing and compacting asphalt in restricted areas:				
	C9.1.7.1	Extra over payment items C9.1.4.1 and C9.1.5.1 for continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size and continuously graded asphalt, medium grade, 30mm thick (60/70 penetration grade bitumen) placed by a hand	m²	1		
	C9.1.7.2	Extra over payment items C9.1.4.2 and C9.1.5.2 for continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.size and continuously graded asphalt surfacing, medium grade, 30mm thick (60/70 penetration grade bitumen) placed by a hand	t	1		
C9.1.8		Surfacing of bridge decks:				
	C9.1.8.1	Levelling course: continuously graded base or surfacing, 100mm thick using 40/50 pen. grade bitumen 26.5mm max.aggr.siz	t	1		
	C9.1.8.2	Surfacing, continuously graded asphalt, medium grade, 20mm thick (60/70 penetration grade bitumen) placed by a paver	t	1		
		Surfacing, continuously graded asphalt, medium grade, 30mm thick (60/70 penetration grade bitumen) placed by a paver	t	1		
		Surfacing, continuously graded asphalt, medium grade, 40mm thick (60/70 penetration grade bitumen) placed by a paver	t	1		
C9.1.9		Application of rolled in chippings:				
	C9.1.9.1	By means of chip spreader	m²	1		
	C9.1.9.2	By hand in restricted areas	m²	1		
C9.1.10		**Variation rates**				

	C9.1.10.1	Bitumen *(50/70 pen)*	ton	1		
	C9.1.10.1.1	Bitumen (40/50 pen)	ton	1		
	C9.1.10.1.2	Bitumen (60/70 pen)	ton	1		
	C9.1.10.2	Aggregate	ton	1		
	C9.1.10.3	Active filler *(lime unless stated in Contract Documentation)*	ton	1		
	C9.1.10.4	Cellulose fibre	t	1		
	C9.1.10.5	Rolled-in chippings	t	1		
	C9.1.10.6	Bituminous bond coat – net bitumen (60% anionic emulsion)	ton	1		
C9.1.11		Asphalt warm mix technology – extra over/under rate				
	C9.1.11.1	New construction	m²	1		
	C9.1.11.2	Rehabilitation	ton	1		
C9.1.13		**Coring of asphalt layers**				
	C9.1.13.1	100mm diameter	No.	1		
	C9.1.13.2	150 mm diameter	No.	1		
C9.1.14		Surface regularity testing as described in Clause A9.1.8.4:				
	C9.1.14.1	Establishment of equipment: Inertial laser Profilometer Other Profilometer type, e.g. ARRB Walking or Face Dipstick	No	1		
	C9.1.14.2	Profiler Surveys utilising equipment as specified - Base layers and surfacing layers	km	1		
C9.1.15		Milling of bridge decks and keys adjacent to bridge decks:				
	C9.1.15.1	Provision of an appropriate sized milling machine	No	1		
	C9.1.15.2	Milling of bridge decks and keys to bridge deck approaches	m³	1		
	C9.1.15.3	Cleaning of milled surfaces	m²	1		
C9.1.16		Work undertaken in accordance with a Product Performance Guarantee System:				
	C9.1.16.1	Provision of a Performance Guarantee	lump sum	1		
	C9.1.16.2	Construction of pavement layer	m²	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C10.1: Pricing Data							
Section C10.1: General Requirements for surface treatments							
C10.1.1			Single seals including a cover spray, if specified *(grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)* :				
	C10.1.1.1		Using 5,0mm aggregate	m^2	1		
	C10.1.1.2		Using 7,1mm aggregate	m^2	1		
	C10.1.1.3		Using 10 mm aggregate	m^2	1		
	C10.1.1.4		Using 14 mm aggregate	m^2	1		
	C10.1.1.5		Using 20 mm aggregate	m^2	1		
C10.1.2			Single seals including a cover spray, if specified (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen) spreading the aggregate by (walk behind spreader):				
	C10.1.2.1		Using 5,0mm aggregate	m^2	1		
	C10.1.2.2		Using 7,1mm aggregate	m^2	1		
	C10.1.2.3		Using 10 mm aggregate	m^2	1		
	C10.1.2.4		Using 14 mm aggregate	m^2	1		
	C10.1.2.5		Using 20 mm aggregate	m^2	1		
C10.1.3			**Multiple stone seals including a cover spray, if specified using:**				
	C10.1.3.1		20 mm and 10 mm aggregate (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)	m^2	1		
	C10.1.3.2		20 mm and 7,1 mm aggregate (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)	m^2	1		
	C10.1.3.3		14 mm and 7,1 mm aggregate (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)	m^2	1		
	C10.1.3.4		14mm and 5,0mm aggregate (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)	m^2	1		
	C10.1.3.5		20 mm with a split application of 7,1 mm aggregate (grade of aggregate: grade A precoated stones; type of binder: 150/200 penetration grade bitumen)	m^2	1		
C10.1.9			**Bituminous binder variations:**				
	C10.1.9.1		70/100 Penetration grade bitumen	litre	1		
	C10.1.9.2		60% Stable-grade emulsion	litre	1		
	C10.1.9.3		Cationic Stable grade emulsion *(70/100)*	litre	1		
	C10.1.9.4		Cationic Spray-grade emulsion *(70/100)*	litre	1		
C10.1.10			**Aggregate variation** *(state grade)* **:**				
	C10.1.10.1		5mm aggregate	m^3	1		
	C10.1.10.2		7,1mm aggregate	m^3	1		
	C10.1.10.3		10 mm aggregate	m^3	1		
	C10.1.10.4		14 mm aggregate	m^3	1		

	C10.1.10.5		20 mm aggregate	m^3	1		
C10.1.11			**Application of cover spray:**				
	C10.1.11.1		60% Anionic Stable-grade emulsion	litre	1		
	C10.1.11.2		60% Diluted Anionic stable-grade emulsion	litre	1		
C10.1.12			**Application of cover spray by hand:**				
	C10.1.12.1		60% Anionic Stable-grade emulsion	litre	1		
	C10.1.12.2		60% Diluted Anionic Stable-grade emulsion	litre	1		
C10.1.14			**Precoating of aggregate using a frontend loader**				
	C10.1.14.1		Product containing low flashpoint solvent *(cationic emulsified asphatl)*	litre	1		
	C10.1.14.2		Product containing no low flashpoint solvent *(cationic emulsified asphalt)*	litre	1		
C10.1.15			**Precoating of aggregate by hand**				
	C10.1.15.1		Product containing low flashpoint solvent (precoating fluid: bitumen prime (MC30) cut back bitumen with aromatic paraffin)	litre	1		
	C10.1.15.2		Product containing no low flashpoint solvent (precoating fluid: bitumen prime (MC30) cut back bitumen with aromatic paraffin)	litre	1		
C10.1.17			**Aggregate for blinding:**				
	C10.1.17.1		Natural sand	m^3	1		
	C10.1.17.2		Crusher sand	m^3	1		
C10.1.18			**Aggregate for blinding by hand:**				
	C10.1.18.1		Natural sand	m^3	1		
	C10.1.18.2		Crusher sand	m^3	1		
C10.1.19			**Extra over item for work in areas inaccessible to mechanical equipment:**				
	C10.1.19.1		Single seals	m^2	1		
	C10.1.19.2		Multiple stone seals	m^2	1		
			Cape seals with one layer of slurry	m^2	1		
	C10.1.19.3						
			Cape seals with two layers of slurry	m^2	1		
	C10.1.19.4		Graded aggregate seals	m^2	1		
	C10.1.19.5		Sand and Grit seals	m^2	1		
	C10.1.19.6		Conventional slurry	m^2	1		
C10.1.22			**Bituminous single seal and slurry, including a cover spray if specified:**				

	C10.1.22.1		**Bituminous single seal with 20 mm aggregate and first slurry (tack coat: 65% Cationic polymer modified emulsion; cover spray: 65% Cationic spray grade emulsion binder and grade of aggregate: A)**				
	C10.1.22.2		Bituminous single seal with 14mm aggregate and slurry *(tack coat: 65% Cationic polymer modified emulsion; cover spray: 65% Cationic spray grade emulsion binder and grade of aggregate: A)*	m^2	1		
	C10.1.22.3		Bituminous single seal with 10 mm aggregate and slurry (indicate type of tack coat and cover spray binder, grade of aggregate and grade of slurry)	m^2	1		
	C10.1.22.4		Extra over C10.1.22.1 for application of second slurry (grade of slurry: coarse)	m^2	1		
C10.1.24			**Variation in the rate of application of the fine slurry:**				
	C10.1.24.1		Fine grade	m^3	1		
	C10.1.24.2		Medium grade	m^3	1		
C10.1.28			Surfacing (state type and binders)	m^2	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C11.1: Pricing Data							
Section C11.1: PITCHING, STONEWORK, CAST IN SITU CONCRETE FOR PROTECTION AGAINST EROSION							
Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
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	(a)	Excavating foundation trenches in soft material using labour enhanced construction methods	m³	1		
	C11.1.1.2	(b)	Excavating foundation trenches in intermediate material using labour enhanced construction methods 0 m to 1,0 m depth	m³	1		
	C11.1.2		Stone pitching:				
	C11.1.2.1		Plain stone pitching:				
			(a) Method 1	m²	1		
			(b) Method 2	m²	1		
	C11.1.2.2		Grouted stone pitching with mortar	m²	1		
	C11.1.2.3		Grouted stone pitching on a concrete bed	m²	1		
	C11.1.3		Riprap:				
	C11.1.3.1		Packed riprap				
			50 kg rock	m³	1		
			100 kg rock	m³	1		
			150 kg rock	m³	1		
	C11.1.3.2		Extra over item C11. 1. 3. 1 for constructing packed riprap using labour enhanced construction methods (Maximum size of stone shall be 0,03 m³ or a maximum mass of 30 kg)	m³	1		
	C11.1.3.3		Dumped riprap				
			50 kg rock	m³	1		
			100 kg rock	m³	1		
			150 kg rock	m³	1		
	C11.1.3.4		Filter layer consisting of:				
			(a) Crushed stone	m³	1		
			(b) Filter sand	m³	1		
			(c) Geotextile (type, class and grade stated)	m²	1		
	C11.1.4		Stone masonry walls:				
	C11.1.4.1		Plain packed stone walls	m³	1		
	C11.1.4.2		Cement-mortared stone walls	m³	1		
	C11.1.4.3		Extra over items C11.1.4.1 and C11.1.4.2 for procuring stone from commercial sources	m³	1		
C11.1.5			Concrete pitching or paving:				
	C11.1.5.1		Cast-in-situ concrete pitching or paving, Class 15/20 concrete 200mm thick	m²	1		
	C11.1.5.2		Prefabricated concrete grass blocks	m²	1		
	C11.1.5.3		Welded steel fabric used for cast-in-situ pitching or paving (Ref 395)	kg	1		
C11.1.6			Concrete edge beams (Class 25/38)	m³	1		
C11.1.7			Provision of approved herbicide and ant poison:				
	C11.1.7.1		Provision of materials	PC sum	1	R 15 000,00	R 15 000,00

	C11.1.7.2		Contractor's charges and profit added to the prime cost sum	%	15000		

TOTAL CARRIED FORWARD TO SUMMARY

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
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	m³	1		
			(b) Exceeding 1,5 m and up to 3,0 m	m³	1		
			(b) Exceeding 3.0 m and up to 4.5 m	m³	1		
	C11.2.1.2		Extra over sub-item C11.2.1.1 for excavation in hard material, irrespective of depth	m³	1		
	C11.2.1.3		Excavating soft material within 1,5 m below the surface level using labour enhanced construction methods:	m³	1		
	C11.2.1.4		Excavating intermediate material within 1,5 m below the surface level using labour enhanced construction methods:	m³	1		
	C11.2.2		Surface preparation for bedding the gabion boxes and mattresses	m²	1		
	C11.2.3		Gabion boxes and mattresses:				
	C11.2.3.1		Galvanized gabion boxes				
			1,0 m wide by 0,5 m deep				
			by 1,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 2,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 3,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 4,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			1,0 m wide by 1,0 m wide				
			by 1,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 2,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 3,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 4,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
	C11.2.3.2		PVC coated gabion boxes				
			1,0 m wide by 0,5 m deep				
			by 1,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 2,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 3,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 4,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			1,0 m wide by 1,0 m wide				
			by 1,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 2,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 3,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
			by 4,0 m long mesh Type 80 with 3.7mm Class A	m³	1		
	C11.2.3.3		Galvanized gabion mattresses				
			1,0 m diaphragm spacing, 6,0 m long by 2,0 m wide				
			by 0,2 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,3 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,5 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			0,6 m diaphragm spacing, 6,0 m long by 2,0 m wide				
			by 0,2 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,3 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,5 m deep mesh	m³	1		

	C11.2.3.4		PVC-coated gabion mattresses				
			1,0 m diaphragm spacing, 6,0 m long by 2,0 m wide				
			by 0,2 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,3 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,5 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			0,6 m diaphragm spacing, 6,0 m long by 2,0 m wide				
			by 0,2 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,3 m deep mesh Type 80 with 3.7mm Class A	m³	1		
			by 0,5 m deep mesh	m³	1		
	C11.2.4		Geotextile				
			Bidim U14 or similiar	m²	1		
			Bidim U24 or similiar	m²	1		
			Bidim U34 or similiar	m²	1		
			Bidim U44 or similiar	m²	1		
			Bidim U64 or similiar	m²	1		

TOTAL CARRIED FORWARD TO SUMMARY

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C11.3			GUIDE BLOCKS AND KILOMETRE MARKERS				
	C11.3.1		Guide blocks				
	C11.3.2		Kilometre markers				
	C11.3.3		Kilometre markers mounted on reinforced concrete pipes (diameter specified)				
		a)	300 mm Ø RC pipe	No.	1		
		b)	375 mm Ø RC pipe	No.	1		
		c)	450 mm Ø RC pipe	No.	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C11.4: Pricing Data							
Section C11.4: ROAD RESTRAINT SYSTEMS							
Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C11.4.6			**Reflective plates**				
	C11.4.6.1		Steel plates	No.	1		
	C11.4.6.2		Plastic plates	No.	1		
C11.4.7			Removing existing guardrails:	m	1		
C11.4.8			Renovating guardrail material:				
	C11.4.8.1		Painting guardrails, end wings and bullnoses	m	1		
C11.4.9			**Re-erection of guardrails with recovered or provided material:**				
	C11.4.9.1		Single guardrail	m	1		
	C11.4.9.2		Double guardrail	m	1		
	C11.4.9.3		Extra over C11.4.9.1 and C11.4.9.2 for excavating holes of posts using labour enhanced methods	m	1		
C11.4.10			**End treatments to existing guardrails with recovered or provided material:**				
	C11.4.10.1		End wings	No.	1		
	C11.4.10.2		Bullnoses	No.	1		
	C11.4.10.3		Bridge adaptors	No.	1		
	C11.4.10.4		End treatments with single guardrails	No.	1		
	C11.4.10.5		End treatments with double guardrails	No.	1		
	C11.4.10.6		Extra over C11.4.10.4 and C11.4.10.5 for excavating holes of posts using labour enhanced methods (soft and intermediate)	No.	1		
C11.4.11			**New material required for the re-erection guardrails with recovered materials:**				
	C11.4.11.1		Guardrails, 3,81 m compliant to SANS 1350	No.	1		
	C11.4.11.2		Timber posts compliant to SANS 457	No.	1		
	C11.4.11.3		Steel posts	No.	1		
	C11.4.11.4		Reflective plates	No.	1		
	C11.4.11.5		Spacer blocks compliant to SANS 457	No.	1		
	C11.4.11.6		Splice bolt complete with nut and washer compliant to SANS 1350	No.	1		
	C11.4.11.7		Post bolt complete with nut and washer compliant to SANS 1350	No.	1		
	C11.4.11.8		Reinforcing plates	No.	1		
C11.4.15			**Disposal of existing guardrails**				
	C11.4.15.1		Straight or curved longitudinal guardrails	m	1		
	C11.4.15.2		End treatments with single guardrails	m	1		
	C11.4.15.3		End treatments with double guardrails	m	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)							
Part C11.6: Pricing Data							
Section C11.6: ROAD SIGNS							
Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
	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 retro-reflective material, where the sign board is constructed from:**				
	C11.6.1.1		Aluminium sheet (2,0 mm thick):				
		(a)	Area 0 to 0,5 m²	m²			
		(b)	Area exceeding 0,5 m² but not 2,0 m²	m²			
		(c)	Area exceeding 2,0 m² but not 10 m²	m²			
		(d)	Area exceeding 10 m²	m²			
	C11.6.1.2		Aluminium composite sheet:				
		(a)	Area 0 to 0,5 m² (indicate plate thickness, 2,0 or 3,0 mm)	m²			
		(b)	Area exceeding 0,5 m² but not 2,0 m² (indicate plate thickness, 2,0 or 3,0 mm)	m²			
		(b)	Area exceeding 2,0 m² but not 10 m² (3,0 mm plate thickness)	m²			
		(c)	Area exceeding 10 m² (3,0 mm plate thickness)	m²			
	C11.6.1.3		Prepainted galvanized steel plate:				
		(a)	Area 0 to 0,5 m²	m²			
		(b)	Area exceeding 0,5 m² but not 2,0 m²	m²			
		(c)	Area exceeding 2,0 m² but not 10 m²	m²			
		(d)	Area exceeding 10 m²	m²			
	C11.6.1.4		Prepainted galvanized steel profiles (200 mm high panels):				
		(a)	Area 0 to 0,5 m²	m²			
		(b)	**Area exceeding 0,5 m² but not 2,0 m²**	m²			
		(c)	Area exceeding 2,0 m² but not 10 m²	m²			
		(d)	Area exceeding 10 m²	m²			
	C11.6.1.5		Other material (details indicated):				
		(a)	Area 0 to 0,5 m²	m²			

		(b)	**Area exceeding 0,5 m² but not 2,0 m²**	m²			
		(c)	Area exceeding 2,0 m² but not 10 m²	m²			
		(d)	Area exceeding 10 m²	m²			
	C11.6.1.6		Extra over items C11.6.1.1 to C11.6.1.4 for attaching signboards to overhead gantry structures and overhead to bridges	m²			
	C11.6.1.7		Regulatory signs, permanent:				
		(a)	600 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(b)	**900 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)**	No			
		(c)	1200 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
	C11.6.1.8		Regulatory signs, temporary:				
		(a)	**600 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)**	No			
		(b)	900 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(c)	1200 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
	C11.6.1.9		**Warning signs, permanent:**				
		(a)	600 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(b)	900 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(c)	**1200 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)**	No			
		(d)	1500 mm size (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
	C11.6.1.10		Warning signs, temporary:				
		(a)	**600 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)**	No			
		(b)	900 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(c)	1200 mm diameter (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
		(d)	**1500 mm size (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)**	No			
	C11.6.1.11		Supplementary plates to permanent regulatory or warning signs (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	m²			
	C11.6.1.12		Supplementary plates to temporary regulatory or warning signs (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	m²			

C11.6.2			**Extra over on item C11.6.1 for using:**				
	C11.6.2.1		Background of retro-reflective material:				
		(a)	Class I	m²			
		(b)	Class II	m²			
		(c)	Class IV specify a) or b)	m²			
	C11.6.2.2		Lettering, symbols, numbers, arrows, emblems and borders of retro-reflective material:				
		(a)	Class III	m²			
		(b)	Class IV specify a) or b)	m²			
C11.6.3			**Road sign supports (overhead road sign structures excluded):**				
	C11.6.3.1		Steel tubing	t			
	C11.6.3.2		Timber, 80mm dia	m			
C11.6.5			**Excavation and backfilling for road sign supports (not applicable to kilometre posts):**				
	C11.6.5.1		**Excavating soft material and backfilling**	m³			
	C11.6.5.2		**Excavating soft or intermediate material and backfilling using labour enhanced construction methods**	m³			
	C11.6.5.3		Extra over item C11.6.5.1 and 2 for cement-treated soil backfill	m³			
	C11.6.5.4		Extra over item C11.6.5.1 for hard material excavation	m³			
	C11.6.5.5		Imported backfill material from commercial sources	m³			
C11.6.6			**Dismantling, storing and re-erecting road signs with a surface area of:**				
	C11.6.6.1		**Area 0 to 0,5 m²**	m²			
	C11.6.6.2		Area exceeding 0,5 m² but not 2,0 m²	m²			
	C11.6.6.3		Exceeding 2,0 m² but not 10 m²	m²			
	C11.6.6.4		Exceeding 10 m²	m²			
C11.6.7			**Dismantling and storing of road signs and overhead signs:**				
	C11.6.7.1		Dismantling and storing of road signs with a surface area of:				
		(a)	Area 0 to 0,5 m²	m²			
		(b)	Area exceeding 0,5 m² but not 2,0 m²	m²			
		(c)	Exceeding 2,0 m² but not 10 m²	m²			
		(d)	Exceeding 10 m²	m²			
	C11.6.7.2		Dismantling and storing of overhead signs with a surface area of:				
		(a)	Area exceeding 0 m² but not 2,0 m²	m²			
		(b)	Exceeding 2,0 m² but not 10 m²	m²			
		(c)	Exceeding 10 m²	m²			

C11.6.8			**Danger plates at culverts / structures:**				
	C11.6.8.1		Size 150 x 600 mm (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
	C11.6.8.2		Size 200 x 800 mm (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
	C11.6.8.3		Size 300 x 1200 mm (aluminium sheet and symbol retro-reflective in Class I retro-reflective material)	No			
C11.6.9			**Installation of traffic signals:**				
	C11.6.9.1		Specialist installation of traffic signals	PC sum	1	750000	750 000,00
	C11.6.9.2		Handling cost, profit and all other charges of sub item C11.6.9.1	%	750 000,00		
C11.6.10			**Disposing of road signs with a surface area of:**				
	C11.6.10.1		Area 0 to 0,5 m²	m²			
	C11.6.10.2		Area exceeding 0,5 m² but not 2,0 m²	m²			
	C11.6.10.3		Exceeding 2,0 m² but not 10 m²	m²			
	C11.6.10.4		Exceeding 10 m²	m²			
C11.6.11			**Disposing of overhead road signs:**				
	C11.6.11.1		Up to 10 m²	m²			
	C11.6.11.2		Exceeding 10 m²	m²			
TOTAL CARRIED FORWARD TO SUMMARY							

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C11.7			**ROAD MARKINGS AND ROAD STUDS**				
	C11.7.1		Road marking:				
	C11.7.1.1		White lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			100mm wide	km	1		
			150mm wide	km	1		
			500mm wide	km	1		
	C11.7.1.2		Yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.1.3		Red lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.1.4		White lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.5		Yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.6		Red lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
C11.7.8	C11.7.1.7		**Transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))**	m²	1		
C11.7.10	C11.7.1.8		**Labour enhanced hand painted white lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))**				
			100mm wide	m²	1		
			150mm wide	m²	1		
			500mm wide	m²	1		
	C11.7.1.9		Labour enhanced hand painted yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	m²	1		
	C11.7.1.10		Labour enhanced hand painted red lines broken or unbroken (paint type and width of line indicated)				
			150mm wide	km	1		
	C11.7.1.11		Labour enhanced hand painted white lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.12		Labour enhanced hand painted yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.13		Labour enhanced hand painted transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.14		Labour enhanced hand painted kerb markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.15		Labour enhanced hand operated pressure applied machine white lines broken or unbroken (paint type and width of line indicated)				
			100mm wide	km	1		
			150mm wide	km	1		
			500mm wide	km	1		

	C11.7.1.16		Labour enhanced hand operated pressure applied machine yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.1.17		Labour enhanced hand operated pressure applied machine red lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.1.18		Labour enhanced hand operated pressure applied machine white lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.1.19		Labour enhanced hand operated pressure applied machine yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		

	C11.7.1.20		Labour enhanced hand operated pressure applied machine transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2		Retro-reflective road marking:				
	C11.7.2.1		White lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			100mm wide	km	1		
			150mm wide	km	1		
			500mm wide	km	1		
	C11.7.2.2		Yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.2.3		Red lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.2.4		White lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.5		Yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.6		Red lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.7		Transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.8		Hand painted white lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			100mm wide	km	1		
			150mm wide	km	1		
			500mm wide	km	1		
	C11.7.2.9		Hand painted yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.2.10		Hand painted red lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.2.11		Hand painted white lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.12		Hand painted yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.13		Hand painted transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.14		Hand operated pressure applied machine white lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			100mm wide	km	1		
			150mm wide	km	1		
			500mm wide	km	1		
	C11.7.2.15		Hand operated pressure applied machine yellow lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				

			150mm wide	km	1		
	C11.7.2.16		Hand operated pressure applied machine red lines broken or unbroken (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))				
			150mm wide	km	1		
	C11.7.2.17		Hand operated pressure applied machine white lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.18		Hand operated pressure applied machine yellow lettering and symbols (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.2.19		Hand operated pressure applied machine transverse lines, painted island and arrestor bed markings (any colour) (retro-reflective road-marking paint (water based paint applied at 0.6 l/m2))	m²	1		
	C11.7.3		Thermoplastic road marking:				
	C11.7.3.1		Thermoplastic road marking, broken or unbroken (white 100mm wide):	km	1		
	C11.7.3.2		Performance based thermoplastic road marking, broken or unbroken (white 100mm wide):	km	1		
	C11.7.3.3		Reduced payment for thermoplastic road marking, white lines, broken or unbroken (100mm):	km	1		
	C11.7.3.4		Reduced payment for thermoplastic road marking, yellow lines, broken or unbroken (100mm):	km	1		
	C11.7.4		Cold plastic road marking material:				
	C11.7.4.1		White lettering and symbols	m²	1		
	C11.7.4.2		Yellow lettering and symbols	m²	1		
	C11.7.4.3		Red lettering and symbols	m²	1		
	C11.7.4.4		Transverse lines, painted island and arrestor bed markings (any colour)	m²	1		
	C11.7.5		Variations in rate of application:				
	C11.7.5.1		White paint	ℓ	1		
	C11.7.5.2		Yellow paint	ℓ	1		
	C11.7.5.3		Red paint	ℓ	1		
	C11.7.5.4		Retro-reflective beads	kg	1		
	C11.7.5.5		Thermoplastic material, all colours	kg	1		
	C11.7.5.6		Cold plastic marking material, all colours	kg	1		
	C11.7.6		Pre formed road marking tape:				
	C11.7.6.1		White	m	1		
	C11.7.6.2		Yellow	m	1		
	C11.7.6.3		Red	m	1		
	C11.7.7		Road studs:				
	C11.7.7.1		Permanent road studs compliant to SANS 1442	No	1		
	C11.7.7.2		Permanent road studs compliant to SANS 1463	No	1		
	C11.7.7.3		Temporary road studs compliant to SANS 1442 or 1463	No	1		
	C11.7.7.4		Solar powered road studs (no. of LED's & colours stated)	No	1		
	C11.7.7.5		Provision of temporary and permanent road studs	prov sum	1	R 50 000,00	50 000,00
	C11.7.7.6		Handling cost, profit and all other charges of sub item C11.7.7.5	%	R 50 000,00		
	C11.7.7.7		Installation only of surface bonded road studs with anchor shanks	No	1		
	C11.7.7.8		Installation only of surface bonded road studs without anchor shanks	No	1		
	C11.7.7.9		Installation only of embedded glass road studs	No	1		
	C11.7.7.10		Installation only of temporary stick on road studs (including removal)	No	1		

	C11.7.8		Setting out and premarking the lines (excluding traffic island markings, lettering and symbols)	km	1		
	C11.7.9		Re-establishing the painting unit during the defects notification period and at other instances on instruction of the Engineer	No	1		
	C11.7.10		Removal of existing, temporary or final road markings by:				
	C11.7.10.1		Sandblasting	m²	1		
	C11.7.10.2		Water-jetting	m²	1		
	C11.7.10.3		Overpainting as temporary measure	m²	1		
	C11.7.11		Removal of existing road studs	No	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C11.9: Pricing Data
Section C11.9:FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS

Item	Payment Reference		Description	Unit	Qty	Rate (R)	Amount (R)
C11.9			**FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS**				
	C11.9.1		Finishing the road and road reserve:				
	C11.9.1.1		Dual carriageway road	km	1		
	C11.9.1.2		Single carriageway road	km	1		
C11.9.2			**Treatment of old roads and temporary deviations:**				
	C11.9.2.1		Conventional construction methods	km	1		
	C11.9.2.2		By hand only	km	1		
TOTAL CARRIED FORWARD TO SUMMARY							

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part C20: Pricing Data
Section C20: TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
C20.1		**TESTING MATERIALS AND JUDGEMENT OF WORKMANSHIP**				
	C20.1.2	Special tests requested by the Engineer:				
		(a) Specify test	PC sum	1	R 50 000,00	50 000,00
		(i) Handling costs and profit in respect of item C20.1.2.2(a)	%	R 50 000,00		
	C20.1.2.2	Employer's contribution to other special tests:				
		(a) Specify test	PC sum	1	R 30 000,00	30 000,00
		(i) Handling costs and profit in respect of item C20.1.2.2(a)	%	R 30 000,00		
C20.1.3		Providing testing equipment:				
	C20.1.3.1	Core drill	No	1		
C20.1.5		Financial contribution for an independent laboratory	month	1		
TOTAL CARRIED FORWARD TO SUMMARY						

Contract No: 8/2/9/37 (7CE/6CEPE) OR HIGHER (2026-2029)
Part D-D1000: Pricing Data
Section D-D1000: Training, Coaching, Guidance, Mentoring and Assistance

Item	Payment Reference	Description	Unit	Qty	Rate (R)	Amount (R)
D10.06		**Training, coaching, guidance, mentoring and assistance**				
	(a)	Training Costs				
		(i) Accredited NQF training	Prov sum	1	R50 000	50 000,00
		(iv) Handling cost and profit in respect of subitems D10.06(a)(i)	%	R50 000		
TOTAL CARRIED FORWARD TO SUMMARY						R 50 000,00