

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 CONSTRUCTION OF MAPHALLE LANDFILL SITE PH2

SECTION 1 : PRELIMINARY AND GENERAL

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
	SANS 1200 A	GENERAL					
1.1	8.3	Scheduled Fixed Charge and Value Related Items					
1.1.1	8.3.1	<u>Contractual Requirements, Sureties and Insurance</u>		L/Sum	1.00		
	8.3.2	<u>Establishment of Facilities on the Site</u>					
1.1.2	8.3.2.1	FACILITIES FOR ENGINEER					
1.1.2.1	PSAB 3.2	a) Furnished offices (1No.)		L/Sum	1.00		
1.1.2.2		c) Name Board (2No.)		L/Sum	1.00		
1.1.3	8.3.2.2	FACILITIES FOR CONTRACTOR					
1.1.3.1		a) Offices, stores, workshops		L/Sum	1.00		
1.1.3.2		b) Tools and equipment		L/Sum	1.00		
1.1.3.3		c) Toilets and ablutions		L/Sum	1.00		
1.1.3.4		d) Temporary fencing off site of construction camp		L/Sum	1.00		
1.1.3.5		e) Provision of water, power and communication		L/Sum	1.00		
1.1.3.6		f) Refuse containers and disposal		L/Sum	1.00		
1.1.4	8.3.3	OTHER FIXED CHARGE OBLIGATIONS-setting out security, deviations and dealing with traffic.		L/Sum	1.00		
1.1.5	PSA 8.3.5	As-built survey		L/Sum	1.00		
1.1.6	PS-10.3	Contractor's obligations in respect of the Occupational Health and Safety Act and any other Health & Safety regulations as may be applicable i.e. Covid-19 compliance.		L/Sum	1.00		
1.1.7	8.3.4	REMOVAL OF SITE ESTABLISHMENT		L/Sum	1.00		
1.2	8.4	Scheduled Time Related Items					
1.2.1	8.4.1	<u>Contractual Requirements, Sureties and Insurance</u>		months	12.00		
1.2.2	8.4.2	<u>Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated</u>		months	12.00		
1.2.3	8.4.2.1	FACILITIES FOR ENGINEER					
1.2.2.1	PSAB 3.2	a) Furnished offices (1No.)		months	12.00		
1.2.2.2		1) Provision of accommodation for the Resident Engineer for the duration of the phase		Prov. Sum	1	R120,000.00	R120,000.00
1.2.2.3		3) Handling cost and profit in respect of sub-item 1,2,2(b)(1)		%	R120,000.00		
1.2.4	8.4.2.2	FACILITIES FOR THE CONTRACTOR					
1.2.4.1		a) Offices, stores, workshops		months	12.00		
1.2.4.2		b) Tools and equipment		months	12.00		
1.2.4.3		c) Toilets and ablutions		months	12.00		
1.2.4.4		d) Temporary fencing off site of construction camp		months	12.00		
1.2.4.5		e) Provision of water, power and communication		months	12.00		
1.2.4.6		f) Refuse containers and disposal		months	12.00		
1.2.5	8.4.3	<u>Supervision for duration of construction-Engineer</u>		months	12.00		
1.2.6	8.4.4	<u>Company & Head Office Overhead Costs for the Duration of the Contract</u>		months	12.00		
1.2.7	8.4.5	<u>Other Time Related Obligations (Including Monthly Site Survey)</u>		months	12.00		
TOTAL CARRIED FORWARD							

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BROUGHT FORWARD							
1.3	8.5	SUMS STATED PROVISIONALLY BY ENGINEER					
1.3.1	PSA 8.5.b	Removal of Stormwater in the landfill Cell		Sum	1.00		
1.3.2	PAF7.5	Appointment of Operation, Health and Safety Consultant		PC Sum	1.00	R420,000.00	R420,000.00
1.3.3		(b) Handling costs and profit in respect of sub-item above		%	R420,000.00		
1.3.4		Appointment of Social Facilitator for the duration of the Project		PC Sum	1.00	R420,000.00	R420,000.00
1.3.5		(b) Handling costs and profit in respect of sub-item above		%	R420,000.00		
1.3.6		Appointment of Environmental Impact Monitoring Consultant		PC Sum	1.00	R420,000.00	R420,000.00
1.3.7		(b) Handling costs and profit in respect of sub-item above		%	R420,000.00		
1.3.8		Appointment of Quantity Surveyor		PC Sum	1.00	R420,000.00	R420,000.00
1.3.9		(b) Handling costs and profit in respect of sub-item above		%	R420,000.00		
1.4	PSA 8.6	PRIME COST ITEMS					
1.4.1	PSA 7.5	a) Acceptance control testing by the Engineer		PC Sum	1.00	R400,000.00	R400,000.00
1.4.2	PSA 8.6	b) Contractor's overheads, charges and profit in items above		%	R100,000.00		
1.4.3	PSA 7.5	a) Training by an Accredited Service Provider		PC Sum	1.00	R300,000.00	R300,000.00
1.4.4	PSA 8.6	b) Contractor's overheads, charges and profit in items above		%	R300,000.00		
1.4.5	PSA 7.5	a) Wages for Labour from Previous Contract		PC Sum	1.00	R65,000.00	R65,000.00
1.4.6	PSA 8.6	b) Contractor's overheads, charges and profit in items above		%	R65,000.00		
1.5	PSA 8.8	TEMPORARY WORKS					
1.5.1	8.8.4	Existing Services:					
1.5.1.1		c) Excavation by hand in soft material to expose any service if required by the Engineer		m³	25.00		
1.5.1.2		Concrete Palisade Fencing - Construct and Installation of 2,4m high concrete palisade fencing as per drawing with complete ground beams and razor wire, stays including excavations, concrete foundation/footings and lockable steel gates of 2m width)Your rate to include all the profit, all your labour, material and delivery & all tests, to protect the grave		m	20.00		
1.5.2	PSA 8.9	Topographical Survey prior to construction commencement		L/Sum	1.00		
1.5.3	PSA 8.10	As built drawings		L/Sum	1.00		
1.5.4	PSA 8.5	Employment of Community Liaison Officer		months	12.00		
	PSA 8.5	Employment of Project Steering Committee & Royalties		months	12.00		
1.5.5	PSA 8.5(b) 1)	Mentoring of CPG Contractor Contractor's overheads, charges and profit on item above		PC Sum %	1.00 R100,000.00	R100,000.00	R100,000.00
1.5.6	PSA 8.5(b) 1)	Provision of a CQA Plan as required by the regulatory authority condition of approval Contractor's overheads, charges and profit on item above		PC Sum %	1.00 R150,000.00	R150,000.00	R150,000.00
1.5.7	PSA 8.5(b) 1)	Services (water, storm water, sewer, septic tank and electricity and general plumbing) and eskom relocation ,palisade removal, and including equiped pump house Contractor's overheads, charges and profit on item above		PC Sum %	1 R2,200,000.00	R2,200,000.00	R2,200,000.00
1.5.8	PSA 8.5(b) 1)	Supply and Install weighbridge Contractor's overheads, charges and profit on item above		PC Sum %	1.00 R1,500,000.00	R1,500,000.00	R1,500,000.00
1.5.9	PSA 8.5(b) 1)	Drilling of boreholes for both monitoring, testing and portable Contractor's overheads, charges and profit on item above		PC Sum %	1.00 R700,000.00	R700,000.00	R700,000.00
1.5.10	PSA 8.5(b) 1)	Installation of back-up Electricity (Generator/Solar Panels) Contractor's overheads, charges and profit on item above		PC Sum %	1.00 R250,000.00	R250,000.00	R250,000.00
1.5.5	PSA 8.5	Borrow Pit and Land Use		L/Sum	1.00		
TOTAL CARRIED FORWARD							

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BROUGHT FORWARD							
1.6	C.4.3.6	OCCUPATIONAL HEALTH AND SAFETY ACT 1993 : HEALTH AND SAFETY SPECIFICATION					
1.6.1	PAF 10.1	Preparation of Risk Assessment, Safe Work Procedures, the Project Health and Safety file, Plan, the provision of PPE and protection clothing and any other H & S matters that the contractor deem necessary		L Sum	1.00		
1.6.2	PAF 10.1	Full compliance with all Health & Safety matters during the construction of the works under the contract		L Sum	1.00		
1.6.3	PAF 10.1	Submission of the Health and Safety File		PC	1.00		
1.7		TESTING MATERIALS AND WORKMANSHIP					
		Other special tests requested by the engineer:					
1.7.1	PSA 8.11	(a) Cost of testing		PC Sum	1.00	R1,200,000.00	R1,200,000.00
1.7.2		(b) Handling cost and profit in respect of Sub-item 1.5.4(a) above		%	1,200,000.00		
1.8	SANS 1200 A	DAYWORKS AND PLANT HIRE					
	8.7	Dayworks:					
		a) Normal Time:					
1.8.1		(i) Supervisor		hr	60		
1.8.2		(ii) Artisan		hr	10		
1.8.3		(iii) Operator		hr	25		
1.8.4		(iv) Labourer		hr	150		
		a) Overtime including Sundays					
1.8.5		(i) Supervisors		hr	10		
1.8.6		(ii) Artisan		hr	10		
1.8.7		(iii) Operator		hr	10		
1.8.8		(iv) Labourer		hr	50		
1.8.9		(i) Loader 150kW		hr	48		
1.8.10		(ii) Grader 130 kW		hr	48		
1.8.11		(iii) Vibrating roller 12t		hr	48		
1.8.12		(iv) Grid compactor		hr	48		
1.8.13		(v) Tractor 65 kW		hr	48		
1.8.14		(vi) Water cart 10000l		hr	48		
1.8.15		(vii) Tip truck 10 m3 capacity		hr	48		
1.8.16		(viii) Excavator 20t		hr	48		
1.8.17		(ix) Bull Dozer 120 kW		hr	48		
1.8.18		(x) Concrete mixer 0.3m³		hr	48		
1.8.19		(xi) TLB 73 kW		hr	48		
TOTAL CARRIED TO SUMMARY							

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ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BROUGHT FORWARD							
2.5	SANS 1200 DB PSDB 8.3.2	EARTHWORKS (PIPE TRENCHES) <u>Excavation</u>					
2.5.1		(a) Excavate in all materials for trenches, backfill , compact and dispose of surplus material for leachate monitoring pipes	LI	m ³	72		
2.5.2		(b) Restricted excavation for leachate sump	LI	m ³	25		
2.5.3		(c) Restricted excavation for liner penetration details	LI	m ³	2		
2.5.4		(d) Restricted excavation for leachate sump	LI	m ⁴	26		
2.5.5		(e) Restricted excavation into embankments to construct 600 mm wide * 600 mm deep anchor trench	LI	m ³	600		
2.5.6		(f) Restricted excavation into embankment for a riser pipe	LI	m ³	4		
2.5.7		(g) Other restricted excavations as shown in the drawings or as instructed by the Engineer	LI	m ³	10		
2.6	SABS 1200 LD PSLD 8.2.1	SEWERS <u>HDPE Pipes</u> Supply, lay and bed complete with couplings:					
2.6.1		(a) 110 mm diameter (Φ) perforated HDPE pipe for leachate collection and leachate detection layers	LI	m	1600		
2.6.2		(b) 160 mm diameter (Φ) unslopped HDPE pipe for leachate gravity line to the leachate dam	LI	m	400		
2.6.3		(c) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at Separation Berm.	L1	No.	1		
2.6.4		(d) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh	LI	m ³	1		
2.6.5		(e) Supply and install 110 HDPE 60°- bend pipe connector.	LI	No.	4		
2.6.6		(f) Supply and install 110 HDPE 150°- bend pipe connector.	LI	No.	4		
	PSLD 8.2.7	<u>Leachate Sump</u>					
2.6.7		(a) Encasing of Pipes					
2.6.8		(a) Preparation and shaping of the sump area according to the drawings.	LI	No.	2		
2.6.9		(b) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at the sump	LI	No.	2		
2.6.10		(c) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh at two positions as shown in the drawings, including smooth Finish.	LI	m ³	2		
2.7	PSLD 8.2.3	<u>Leachate Monitoring Manhole</u>					
2.7.1		(a) Supply and install precast concrete 1.5m diameter manhole ring as per detail drawing	LI	No.	1		
2.7.2		(b) Supply and install cast iron removable cover complete with locking accessories	LI	No.	1		
2.8	SANS 1200DK PSDK 8.2.4	LANDFILL LINER (SUPPLY AND INSTALL) <u>Geosynthetics - Supply to the site and store safely in accordance with the project and manufacturer's specifications. Install according to the drawings and manuals to floor and slope area measured net, excluding all wastage, and overlaps but including anchorage length and overlap with existing liner.</u>					
2.8.1		(a) Supply and install Containment Geotextile , Continuous filament geotextile 270g/m2 (non-woven needle punched - NWNP) for the Leachate monitoring pipe	LI	m ²	960		
2.8.2		(b) Supply and installation of Geosynthetic Clay Liner (GCL) Reinforced Sodium Bentonite GCL 4000g/m2 .	LI	m ²	22000		
2.8.3		(c) Supply and installation of Geomembrane to GRI GM-13. 1.5mm thick HDPE double textured to SANS 1526 as approved placed as per SANS 10409.	LI	m ²	25000		
2.8.4		(d) Supply and installation of a 1500g/m ² non-woven geotextile to GRI GT12 as filtration layer above the leachate collection layer.	LI	m ²	22000		
2.8.5		(e) Supply and install Separation Geotextile 200g/m2 to GRI GT12	LI	m ²	25000		
2.8.6		(f) Battening of all liners to concrete pipe penetration base	LI	No.	3		
2.8.7		(g) Final capping welded over penetration base	LI	No.	3		
2.8.8	8.2.5	Stone pitching, where instructed by Engineer	LI	m ²	1500		
TOTAL CARRIED TO SUMMARY							

SECTION 3 : LEACHATE POND

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SECTION 3 : LEACHATE POND

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BROUGHT FORWARD							
3.5	SANS 1200 DB PSDB 8.3.2	EARTHWORKS (PIPE TRENCHES) <u>Excavation</u>					
3.5.1		(a) Excavate in all materials for trenches, backfill , compact and dispose of surplus material for leachate monitoring pipes	LI	m ³	30		
3.5.2		(c) Restricted excavation for liner penetration details	LI	m ³	2		
3.5.3		(e) Restricted excavation into embankments to construct 300 mm wide * 300 mm deep anchor trench	LI	m ³	30		
3.5.4		(g) Other restricted excavations as shown in the drawings or as instructed by the Engineer	LI	m ³	5		
3.6	SABS 1200 LD PSLD 8.2.1	SEWERS HDPE Pipes Supply, lay and bed complete with couplings:					
3.6.1		(a) 110 mm diameter (Φ) perforated HDPE pipe for leachate detection layers	LI	m	240		
3.6.2		(b) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at Separation Berm.	LI	No.	2		
3.6.3		(c) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh	LI	m ³	2		
3.6.4		(d) Supply and install 110 HDPE 60° bend pipe connector.	LI	No.	4		
3.6.5		(e) Supply and install 110 HDPE 150° bend pipe connector.	LI	No.	4		
3.7	PSLD 8.2.3	<u>Leachate Monitoring Manhole</u>					
3.7.1		(a) Supply and install precast concrete 1.5m diameter manhole ring as per detail drawing	LI	No.	1		
3.7.2		(b) Supply and install cast iron removable cover complete with locking accessories	LI	No.	1		
3.8	SANS 1200DK PSDK 8.2.4	LANDFILL LINER (SUPPLY AND INSTALL) <u>Geosynthetics - Supply to the site and store safely in accordance with the project and manufacturer's specifications. Install according to the drawings and manuals to floor and slope area measured net, excluding all wastage, and overlaps but including anchorage length and overlap with existing liner.</u>					
3.8.1		(a) Supply and install Containment Geotextile , Continuous filament geotextile 270g/m2 (non-woven needle punched - NWNP) for the Leachate monitoring pipe	LI	m ²	300		
3.8.2		(b) Supply and installation of Geosynthetic Clay Liner (GCL) Reinforced Sodium Bentonite GCL 4000g/m2 .	LI	m ²	5800		
3.8.3		(c) Supply and installation of Geomembrane to GRI GM-13. 1.5mm thick HDPE double textured to SANS 1526 as approved placed as per SANS 10409.	LI	m ²	5800		
3.8.4		(d) Supply and installation of a 1500g/m ² non-woven geotextile to GRI GT12 as filtration layer above the leachate collection layer.	LI	m ²	5800		
3.8.5	8.2.5	Stone pitching, where instructed by Engineer	LI	m ²	1500		
TOTAL CARRIED TO SUMMARY							

SECTION 4: STORMWATER DRAINAGE

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ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BROUGHT FORWARD							
6	SANS 2001-CM1	SCHEDULE: 6 MASONRY WORK, WATERPROOFING, FLOOR COVERINGS, PLASTIC LININGS, PLASTERING, TILING , GLAZING AND PAINTWORK <i>Materials Recovery Building , Guard House, Control Room and Washbay</i>					
6.24		2 <u>On Fibre Cement</u> Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint (a) On fascias and barge boards		m²	10		
6.25		3 <u>On Metal</u> Undercoat and minimum 2 coat gloss enamel (a) On door frames		m²	10		
6.26		(b) On gutters and down pipes		m²	50		
6.27		(c) On windows		m²	15		
6.28		(d) On door and window budglar proofing		m²	15		
6.29		<u>TILING</u>					
6.30		(a) Inside bathroom and toilet (b) Toilet and bathroom installation and accessories including plumbing <u>GLAZING TO STEEL WITH PUTTY</u> Glazing to steel with putty		m²	40		
				Prov Sum	1		
6.31		(a) 6.38mm Thick clear laminated normal strength glass up to 3.0m²		m²	30		
CARRIED FORWARD TO SUMMARY OF SCHEDULES							

GREATER LETABA MUNICIPALITY
CONTRACT NUMBER: GLM015/2025
CONSTRUCTION OF MAPHALLE LANDFILL SITE PH2

SECTION 7 : STRUCTURAL STEEL, AND METALWORK

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GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B: ROADWORKS
 SECTION 1500
 ACCOMMODATION OF TRAFFIC

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1500	Accommodating traffic				
15.01	Accommodating traffic and maintaining temporary deviations	km	1.50		
15.02	Earthworks for temporary deviations:				
	(a) Shaping of temporary deviations	km	1.50		
	(b) Cut and borrow to fill	m ³	1350		
	(c) Cut to spoil	m ³	900		
B15.03	Temporary traffic-control facilities				
	(a) Flagmen	man-day	480		
	(b) Portable STOP and GO-RY signs	No	4		
	(e) Road signs R- and TR-series, (size indicated)	No	56		
	(f) Road signs TW- series, (size indicated)	No	10		
	(g) Road signs, STW-,DTG-,TGS- and TG-series(excluding delineators and barricades)	m ²	30		
	(h) Delineators (DTG50J)				
	(i) Single	No	60		
	(ii) Mounted back to back	No	5		
	(j) Traffic cones 600mm	No	5		
	(l) movable barriers (type indicated)	No	5		
TOTAL CARRIED FORWARD TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B: ROADWORKS
 SECTION 1500
 ACCOMMODATION OF TRAFFIC

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	TOTAL BROUGHT FORWARD				
	(n) Safety jackets and hats	No	5		
15.04	Relocation of traffic-control facilities	Lump	1		
15.05	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations				
	(a) Temporary deviations	m ³	180		
15.06	Watering of temporary deviations	kl	576		
15.07	Blading by road grader of:				
	(a) Temporary deviations	km-pass	9.0		
	(b) Existing roads used as temporary deviations	km-pass	9.0		
1500	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 1700
 CLEARING AND GRUBBING

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B17.01	Clearing and grubbing including Sand: Removal a) Normal areas				
	(i) Within the road reserve	ha	1.50		
	(ii) In borrow areas	ha	2.25		
17.02	Removing and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1m up to and including 2m	No	4		
	(b) Girth exceeding 2m up to and including 3m	No	3		
1700	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 2100
 DRAINS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
21.01	Excavation for open drains:				
	(a) Excavating soft materials situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5m	m ³	225		
	(ii) Exceeding 1,5m and up to 3,0m	m ³	113		
2100	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 200
 PREFABRICATED CULVERTS

ITEM No	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Section 2200	PREFABRICATED CULVERTS				
22.01	Excavation:				
(a)	Excavate soft material situated within the following depth ranges below the surface level:				
(i)	0m to 1.5m	m³	493.8		
(ii)	Exceeding 1.5m and up to 3.0m	m³	246.9		
B22.02	Backfilling:				
(a)	Using excavated material:	m³	372.28		
(b)	Using imported material	m³	372.28		
22.03	Portal and rectangular culverts: Class 100s				
22.03	Portal and rectangular culverts: Class 100s				
LI	(2) 600 mm dia class 100D concrete pipe culvert on class B bedding	m	24		
	(2) 900 mm dia class 100D concrete pipe culvert on class B bedding	m	60		
2200	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 2300
 CONCRETE KERBING

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS				
23.01	Concrete kerbing				
LI	(a) Precast kerbing to SABS 927				
	(2) Figure 8B (Mountable)	m	2000		
23.02	Concrete kerbing-channeling combination				
	(2) Figure 8B kerb (Mountable) Type C:				
	(i) with 300mm wide concrete channel	m	302		
23.07	Trimming of excavations for concrete-lined open drains:				
	(a) In soft material	m ²	2250		
	(b) In hard material	m ²	225		
23.08	Concrete lining for open drains:				
LI	(a) Cast in situ class 25/19 concrete lining in v-drains*	m ³	30		
	(b) Class U2 surface finish to cast in situ concrete in v-drains*	m ²	300		
LI	23.09 Formwork to cast in situ concrete lining for open drains (class F2 surface finish):				
	(a) To sides with formwork on the internal face only	m ²	300		
	(b) To sides with formwork on both internal and external faces (each face measured)	m ²	603.0		
	To ends of slabs				
LI	23.1 Sealed joints in concrete linings of open drains				
	(a) Polysulphide sealants	m	3		
	(b) Soft Board expansion	m	44		
23.12	Steel reinforcing:				
LI (c)	Welded steel fabric(ref 193)	kg	140.56		
23.13	Polyethylene sheeting (0,15 mm thick) for concrete-lined open drains	m ²	450.00		
LI	23.14 Cutting paving surfacing and pavement layers for concrete kerbing, channelling or concrete-lined drains	m	2302.00		
2100	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 3100
 BORROW MATERIALS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B31.01	Excess overburden				
	(a) 0 m up to 1,5m	m ³	31250		
	(b) Exceeding 1,5m and up to 3,0m	m ³	250		
31.03	Finishing -off borrow areas in:				
	(a) Hard material	ha	6.25		
	(b) Intermediate Material	ha	1.25		
3300	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 3300
 MASS EARTHWORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33.01	Cut and borrow to fill, including freehaul up to 1,0 km. (a) Gravel material in compacted layer thickness of 150mm and less (i) Compacted to 90% of modified AASHTO density	m ³	7,975.8		
33.03	Extra over item 33.01 for excavating and breaking down material in: (a) Intermediate excavation (b) Hard excavation	m ³ m ³	1,595.2 1,196.4		
33.04	Cut to spoil, including free haul up to 1,0 km. Material obtained from : (a) Soft excavation (d) Boulders class A hard Excavation including rock Blasting	m ³ m ³	5,184.3 200.0		
B33.04					
33.10	Roadbed preparation and the compaction of (b) Compaction to 93% of modified AASHTO density	m ³	2,459.7		
33.13	Finishing-off cut and fill slopes, medians and interchange areas: (a) Cut slopes (b) Fill slopes	m ² m ²	7,550.0 7,550.0		
B33.14	Stockpiling of material (for re-use)	m ³	2,592.1		
	OVERHAUL				
33/16.02	Overhaul (extra over items 33.01 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m ³ .km	118,440.6		
3300	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B : ROADWORKS

SECTION 3400

PAVEMENT LAYERS OF GRAVEL MATERIAL

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B34.01	Pavement layers constructed from gravel taken from cut, stockpile and commercial source, incl. free-haul up to 1,0 km.				
B34.01	(a) (i) Gravel selected layer (selected un stabilized gravel) compacted to:				
B34.01	(i) 93% of modified AASHTO density Class G5 (150mm compacted layer thickness)	m ³	2,706.30		
B34.01	(c) Gravel subbase (stabilized gravel) compacted to:				
	(i) 95% of modified AASHTO density Class G5 (150mm compacted layer thickness)	m ³	2,570.40		
B34.01	(f) Gravel base (chemically stabilized material) compacted to:				
	(ii) 98% of modified AASHTO density (150mm compacted layer thickness)	m ³	2,434.50		
34.03	Pavement layers constructed from gravel obtained from existing pavement layers :				
(l)	Gravel shoulder wearing coarse compacted to 93% mod AASHTO density using		204.00		
34.11	Watering the pavement excavation floor	kl	73.68		
	OVERHAUL				
33/16.02	Overhaul (extra over items 34.01 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m ³ .km	69,400.80		
3400	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 3500
 STABILIZATION

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
35.01	Chemical stabilization extra over unstabilized compacted layers:				
LI					
	(a) Base: (thickness 150mm),C3	m ³	2,434.50		
	(b) Sub Base: (thickness 150mm),C4	m ³	2,570.40		
B35.02	Chemical stabilizing agent:(Specific Road cement only)				
BC5.4.14	(a) Cement (CEM II B-L 32.5N,Sure Road or Road Cem brand,or any road cement)	t	257.99		
	Trial section for a chemically stabilised layer				
	(a) Base: (thickness 150mm)	m ³	258.00		
	(b) Sub Base: (thickness 150mm)	m ³	264.00		
35.04	Provision and application of water for curing stabilized layers	kl	218.16		
3500	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 3600
 CRUSHED-STONE BASE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3600	CRUSHED-STONE BASE				
36.01	Crushed-stone base: Constructed from type G1 Graded Crushed Stone material obtained from commercial sources				
	(a) 150mm G1 Crusher run material compacted to: 88% of apparent relative density	m ³	547.95		
36.02	Additional compaction (a) Extra over sub-item 36.01(a) for compaction to 89% of relative density	m ³	438.36		
36.03	Crushed stone base trial section constructed in accordance with the provisions of clause 3603				
	(a) 150mm G1 Crusher run material compacted to: 88% of apparent relative density	m ³	172.05		

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE A: ROADWORKS
 SECTION 4100
 PRIME COAT

SECTION 4100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B41.01	<u>PRIME COAT</u>				
	Prime coat: (e) MC-30 cut-back bitumen	litre	3321.12		
TOTAL SECTION 3400 CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE A: ROADWORKS
 SECTION 4200
 ASPHALT BASE AND SURFACING

SECTION 4200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>ASPHALT BASE AND SURFACING</u>				
42.02	Asphalt surfacing (30mm thick using 60/70 penetration grade bitumen) on approaches				
	(a) Continuously graded (medium)	m ²	4151.4		
42.04	Tack coat of 30% stable-grade emulsion	litre	3321.12		
42.05	Binder variations:				
	(a) 60/70 Penetration grade bitumen	t	1		
42.06	Variation in active filler content:				
	(a) Cement	t	1.0		
42.08	100mm cores in asphalt paving & Testing	No	4.00		
TOTAL SECTION 3400 CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 5100

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5100	<u>PITCHING, STONEWORK AND PROTECTION AGAINST EROSION</u>				
B51.01	Stone masonry walls:				
LI (b)	Grouted stone pitching	m ²	2,250		
51.03	Stone masonry walls:				
(b)	Cement - motared stone wall	m ³	1		
LI 51.05	Concrete edge beams (Class 25/19 concrete) 300mmx300mm	m	50		
51/52.01	Foundation trench excavation				
(b)	In all other classes of material	m ³	230		
TOTAL CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 5200
 GABIONS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5200	<u>GABIONS</u>				
52.01	Foundation trench excavation and backfilling :				
LI (b)	In all other classes of material	m ³	27.00		
52.02	Surface preparaton for bedding the gabions	m ²	27.00		
52.03	Gabions :				
LI					
(a)	Galvanised gabion boxes : Mesh size: 80mm x 80mm Wire diameter : 2.7mm Diaphragm spacing : 1m				
(i)	2m x 1m x 1m	m ³	540.00		
(ii)	3m x 1m x 1m	m ³	540.00		
(iii)	4m x 1m x 1m	m ³	50.00		
LI					
52.04	Filter fabric : (Grade U24 or approved equivalent)	m ²	4,050.00		
TOTAL CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 5400
GUARDRAILS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5400	<u>GUARDRAILS</u>				
54.01	Guardrails on timber posts:				
LI (a)	Galvanised	m	60		
54.03	Extra over items 54.01, 54.02 and 54.11 for horizontally curved guardrails factory bent to a radius of less than 45m	m	10		
54.04	End treatments				
	(ii) End treatments where single guardrail sections are used (including additional posts)				
(a)	End wings	No.	4		
	(b) Bull noses	No.	4		
(d)	End treatments in accordance with the drawings where single guardrail sections are use	No.	2		
	(e) End treatments in accordance with the drawings where double guardrail sections are used	No.	2		
54.05	Additional guardrail posts				
(a)	Timber	No.	1		
LI					
54.06	Reflective plates	No.	28		
TOTAL CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 SECTION 5600
 ROAD SIGNS

SECTION 5600

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or in Class 1 retro-reflective material, where the sign board is constructed from:				
	(c) Prepainted galvanized steel plate (chromadek 1,6mm thick or approved equivalent)				
LI	(i) Area not exceeding 2m ²	m ²	120.00		
56.02	Extra over B56.01 for using:				
	(a) Background of retro-reflective material:				
	(iii) Class I	m ²	120.00		
	(b) Lettering, symbols, numbers, arrows, emblems				
	(ii) Class III	m ²	120.00		
56.03	Road sign supports (overhead road sign structures excluded)				
	(a) Steel tubing (wall thickness 3mm)				
LI	(i) 75mm	t	6.00		
56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	4.00		
56.06	Extra over item 56.05 for cement-treated soil backfill	m ³	8.00		
56.07	Extra over item 56.05 for rock excavation	m ³	6.00		
56.12	Hazard plates:				
	(a) 200mm*800mm	No	10.00		
5600.00	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE B : ROADWORKS
 ECTION 5700
 ROAD MARKINGS AND STUDS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	ROAD MARKINGS AND STUDS				
57.02	Retro-reflective road-marking paint:				
LI	(a) White lines (broken or unbroken):				
	(i) 100 mm wide	km	1.51		
	(iii) 200 mm wide	km	0.51		
LI	(b) Yellow lines (broken or unbroken):				
	(i) 100 mm wide	km	4.00		
LI	(d) White lettering and symbols	m ²			
	(e) Yellow lettering and symbols	m ²	1		
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m ²	160		
B57.06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	0.50		
B57.07	Road studs				
	Permanent road studs compliant to SANS 1442 (yellow, bi-directional, surface bonded with anchor shank, glas)	No.	200		
5700	TOTAL CARRIED TO SUMMARY				

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B : ROADWORKS

SECTION 5900

FINISHING THE ROAD AND ROAD RESERVE

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
59.01	Finishing the road and road reserve:				
	(b) Single carriageway road	km	1.51		
5900	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
 CONTRACT NUMBER: GLM015/2025
 SCHEDULE A: ROADWORKS
 SECTION 7300
 CONCRETE BLOCK PAVING FOR ROADS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7300	CONCRETE BLOCK PAVING FOR ROADS				
73.01	Concrete Block Paving:				
LI	Provide and Construct interlocking paving lain in herringbone pattern 80 mm thick, 25 Mpa Type S-A concrete paving blocks. price must include bedding, Sand layer, Compaction and finishing (Colour to suit Client including labour and profit)	m ²	12,889.80		
73.03	Provision of approved herbicide and ant poison :	Prov Sum	1.00		
	(a) Provision of materials				
	(b) Contractor's charges and profit added to the prime cost sum	%	0.00		
LI	(i) A complete speed hump as specified on drawing	No	4		
TOTAL SECTION 3400 CARRIED TO SUMMARY					

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B : ROADWORKS

SECTION 8100

TESTING MATERIALS AND WORKMANSHIP

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	P. Sum	1.00	300,000.00	300,000.00
B81.02	(b) Engineer Quality Monitoring & Control	P. Sum	1.00	840,000.00	840,000.00
	(c) Charge on provisional sum for overheads and profits	%	1,140,000.00		
8100	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY
CONTRACT NUMBER: GLM015/2025

SUMMARY OF SCHEDULE OF QUANTITIES

<u>SUMMARY OF SCHEDULE B : ROADWORKS</u>		
1500	ACCOMMODATION OF TRAFFIC	
1700	CLEARING AND GRUBBING	
2100	DRAINS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING	
3100	BORROW MATERIALS	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILISATION	
3600	CRUSHED STONE BASE	
5100	PITCHING, STONWORK AND PROTECTION AGAIST EROSION	
5200	GABIONS	
5400	GUARDRAILS	
5600	ROAD SIGNS	
5700	ROAD MARKINGS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATMENT OF OLD ROADS	
7300	CONCRETE BLOCK PAVING FOR ROADS	
8100	TESTING MATERIALS AND WORKMANSHIP	
	SUB-TOTAL TO MAIN SUMMARY	

GREATER LETABA MUNICIPALITY
CONTRACT NUMBER: GLM015/2025
CONSTRUCTION OF MAPHALLE LANDFILL SITE PH2

C3.3 SUMMARY OF BILL OF QUANTITIES		TENDERED AMOUNT
SECTION 1:	PRELIMINARY AND GENERAL	
SECTION 2:	LANDFILL CELLS	
SECTION 3:	LEACHATE POND	
SECTION 4:	DRAINAGE	
SECTION 5:	CONCRETE STRUCTURAL	
SECTION 6 :	MASONRY WORK, WATERPROOFING, FLOOR COVERINGS, PLASTIC LININGS, PLASTERING, TILING , GLAZING AND PAINTWORK	
SECTION 7 :	STRUCTURAL STEEL, AND METALWORK	
SECTION 8 :	STRUCTURAL TIMBER, CARPENTRY, JOINERY AND ROOF COVERINGS	
SECTION 9:	ROADS (COLTO 1500 TO 8100)	
SUB TOTAL:		
CONTINGENCIES (10% OF SUB TOTAL)		
CONTRACT PRICE ADJUSTMENT (2.5% OF SUB TOTAL)		
SUB TOTAL:		
VALUE ADDED TAX (15%)		
TENDER SUM CARRIED TO FORM OF TENDER		