SECTION 1: PRELIMINARY AND GENERAL

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
	SANS 1200 A	GENERAL	1				
1.1	8.3	Scheduled Fixed Charge and Value Related Items					
1.1.1	8.3.1	Contractual Requirements, Sureties and Insurance		L/Sum	1.00		
	8.3.2	Establishment of Facilities on the Site					
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		
THE STREET	F3AB 3.2	c) Name Board (2No.)	2	L/Sum	1.00		
1.1.2.2	0000			×			
1.1.3	8.3.2.2	FACILITIES FOR CONTRACTOR		L/Sum	1.00		
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		VANORES	1.00		
1.1.3.4		d) Temporary fencing off site of construction camp		L/Sum	CHILDON		
1.1.3.5		e) Provision of water, power and communication		L/Sum	1.00	1	
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	Contractual Requirements, Sureties and Insurance		months	12.00		
1.2.2	8.4.2	Operation and Maintenance of Facilities on Site, for Duration of Construction, except where otherwise stated		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		Provision of accomodation for the Resident Engineer for the duration of the phase		Prov. Sum	1	R120,000.00	R120,000.0
1.2.2.3		Handling cost and profit in respect of sub-item 1,2,2,2(b)(1)		%	R120,000.00		
1.2.4	8.4.2.2	FACILITIES FOR THE CONTRACTOR					
1.2.4.1	0	a) Offices, stores, workshops		months	12.00		
1.2.4.1		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		
		e) Provision of water, power and communication		months	12.00		
1.2.4.5		f) Refuse containers and disposal		months	12.00		
1.2.4.6		The state of the s		months	12.00		
1.2.5	8.4.3	Supervision for duration of construction-Engineer		2007	an 0-85/40 c		W
1.2.6	8.4.4	Company & Head Office Overhead Costs for the Duration of the Contract		months	12.00		
1.2.7	8.4.5	Other Time Related Obligations (Including Monthly Site Survey)		months	12.00		

SECTION 1: PRELIMINARY AND GENERAL

ITEM No.	PAYMENT	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
	REFER. UGHT 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		8
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	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 1.5.1	PSA 8.8 8.8.4	TEMPORARY WORKS 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 inluding 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		L/Sum	1.00		
1.5.3	PSA 8.10	construction commencement As built drawings		L/Sum	1.00		
1.5.4	PSA 8.5	Employment of Community Liaison Officer		months	12.00		
CARTION 677	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		PC Sum	1	R2,200,000.00	R2,200,000.00
		Contractor's overheads, charges and profit on item above		%	R2,200,000.00	V20/V1 (2000/2012) 10-00 10-00	-Directors of second as
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		
	ARRIED FORWAR	D					

SECTION 1: PRELIMINARY AND GENERAL

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
TOTAL BRO	UGHT FORWARI	D					
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	A .	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:			60,000		
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 a) Overtime including Sundays		hr	150		
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		hr	48		
1.8.11		130 kW (iii) Vibrating roller 12t		hr	48		
1.8.12		(iv) Grid compactor					
1.8.13		(v) Tractor	-	hr	48		
202.000	-	65 kW		hr	48		
1.8.14		(vi) Water cart 10000/		hr	48	23	
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	
1.8.18		(x) Concrete mixer 0.3m ³		hr	48		
1.8.19		(xi) TLB 73 kW		hr	48		
TOTAL CA	RRIED TO SUMI	- Automotive Control of the Control					

SECTION 2 : LANDFILL CELL No.1

2.1							
	SANS 1200 C	SITE CLEARING Buik Excavation					
2.1.1	PSC 8.2.1	Clear Site incl. remove trees up to 1m girth to approved areas off Site		ha	4		
2.1.2	8.2.2	Remove trees of girth: Over and up to:- (a) 1,0 m to 2,0 m	u	No.	10		
2.2	SANS 1200 D	EARTHWORKS (EXCAVATION, TO STOCKPILE OR SPOIL)	œ		*Downsta		
2.2.1	PSD 8.3.2	a) Excavate in landfill cell(s), to stockpile as ordered including oversize material		m ³	5440	×	
2.2.2 2.2.3		b) Extra-over for 1) Intermediate excavation 2) Hard rock material		m³ m³	680 680		
2.3	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE) Ceilbed					
2.3.1	PSDM 8.3.3	Treatment of Excavation Floors (a) Rip and compaction of materials to 93% of MDD		m²	31500		
2.3.2		(b) Import and place 19mm crushed rock aggregate as leachate collection layer 200mm thick.		m³	108		
		<u>FII</u>					
2.3.3	PSDM 8.3.4	(a) Cell to required levels with material obtained from cuts and stockpiles compacted to 93% of MDD		m³	10		
2.3,4	PSDM 8.3.4	(b) Fill Cell to required levels with material obtained from borrow pits and compacted to 93% of MDD		m ³	10		
2.3.5	PSDM 8.3.4	(c) Fill Cell to required levels with G7 material obtained from commercial sources and compacted to 93% of MDD		m³	50		
		Cell base					
2.3.6	PSDM 8.3.4	(a) Obtain material from site place and compact Clay material (SC/CL) (150 mm thick) to min 95% MDD.		m ³	1800		
2.3.7		(b) Obtain material from borrow pits, place and compact Clay material (SC/CL) (150 mm thick) to min 95% MDD.		m ³	1800		
2.3.8		(c) Obtain material from commercial sources place and compact Clay material (SC/CL equivalent to G7) (150 mm thick) to min 95% MDD.		m ³	1800		
2.3.9	PSDM 8.3.5	(d) Import from commercial sources , place 100 mm thick layer of silty sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m ³	800		
2.3.10		(e) Import from Borrowpit sources , place 100 mm thick layer of silty sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m ³	800		
2.3.11		(f) Obtain from site stockpile and place 100 mm thick layer of silty sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m ³	800		
2.3.12		(g) Import and place 25-38 mm crushed rock aggregate as leachate collection layer 200mm thick.		m³	4400		
2.3.13		(h) Import 100 mm sand protection layer, placed on separation geotextile		m ³	1600		
2.3.14	PSDM 8.3.12	Overhaul for all materials and works / spoil on site in excess of free haul distance of 0.5km excluding the haulage of commercial materials		m³-km	106200		
2.4	SANS 1200 DE	FORMING EMBANKMENTS					
		Cell demarcation berm					
2.4.1	PSDE 8.3.4	Preparation exposed surfaces (a) Area covered by the embankment		m²	7875		
	PSDE 8.3.5	(a) Haul from stockpiles commercial source place and compact including final trimming and shaping (at G7 quality) .1 93% of MDD		m³	1875		
2.4.2		.2 95% of MDD		m ³	1875		
		(b) Import commercial source at least G7 from Borrowpits as directed by engineer material to be used for embankment, place and compact including final trimming and shaping		27			
2.4.4 2.4.5		.1 93% of MDD .2 95% of MDD		m³ m³	1000 1000		
		(c) Import from commercial sources (G6/G5 material) including haulage, material to be used for embankment, place and compact including final trimming and shaping	· ·				
		4.03% of MDD		m ³	1000		
2.4.6		.1 93% of MDD		m ³	1000		
2.4.8		(d) Import from commercial sources, place and compact 100 mm sand protection layer, placed on separation geotextile	u	m³	204		
2.4.9		(e) Backfill with soil cement (5% Cement Stabilised Soil with at least G7 material) at Perimeter Embankment and Separation Bearn	u	m ³	270		

SECTION 2 : LANDFILL CELL No.1

ITEM No.	PAYMENT REFER. JGHT FORWARD	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
OTAL BRUL	JOHN PORVVARD					l	
2.5	SANS 1200 DB PSDB 8.3.2	EARTHWORKS (PIPE TRENCHES) Excavation					
2.5.1		(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material for leachate monitoring pipes	ш	m³	72		
2.5.2		(b) Restricted excavation for leachate sump	u	m³	25		
2.5.3		(c) Restricted excavation for liner penetration details	u	m ³	2		
2.5.4		(d) Restricted excavation for leachate sump	Ц	m⁴	26		
2.5.5		(e) Restricted excavation into embankments to construct 600 mm wide * 600 mm deep anchor trench	ш	m³	600		
2.5.6		(f) Restricted excavation into embankment for a riser pipe	u	m ³	4		
2.5.7		(g) Other restricted excavations as shown in the drawings or as instructed by the Engineer	u	m ³	10		
2.6	SABS 1200 LD PSLD 8.2.1	SEWERS HDPE Pipes 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	u	m	1600		
2.6.2		(b) 160 mm diameter (Φ) unslotted HDPE pipe for leachate gravity line to the leachate dam	u	m	400		
2.6.3		(c) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at		No	1		
ANNOUNCE TO A		Separation Berm.	L1	No.	1		
2.6.4		(d) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh	u	m³ No	1		
2.6.5		(e) Supply and install 110 HDPE 60°- bend pipe connector. (f) Supply and install 110 HDPE 150°- bend pipe connector.	u u	No. No.	4		
2.0.0	PSLD 8.2.7	Leachate Sump	.,	No.			
2.6.7	1 020 0.2.1	(a) Encasing of Pipes					
2.6.8		(a) Preparation and shaping of the sump area according to the drawings	u	No.	2		
985 50		(b) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at the	220	560			
2.6.9		sump (c) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh at two	LI	No.	2	- 1	
2.6.10		positions as shown in the drawings, including smooth Finish.	LI	m ³	2		
2.7	PSLD 8.2.3	Leachate Monitoring Manhole					
2.7.1		(a) Supply and install precast concrete 1.5m diameter manhole ring as per detail drawing	u	No.	1		
2.7.2		(b) Supply and install cast iron removable cover complete with locking accessories	Li	No.	1		
2.8	SANS 1200DK	LANDFILL LINER (SUPPLY AND INSTALL)					
	PSDK 8.2.4	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 overlaps with oxisting liner.					
2.8.1		(a) Supply and install Containment Geotextile , Continuous filament geotextile 270g/m2 (non-woven needle punched - NWNP) for the Leachate monitoring pipe	u	m²	960		
2.8.2		(b) Supply and installation of Geosynthetic Clay Liner (GCL) Reinforced Sodium Bentonite GCL 4000g/m2.	и	m²	22000		
2.8.3		(c) Supply and installation of Geomembrane to GRI GM-13. 1.5mm thick HDPE double	u	m²	25000		
		textured to SANS 1526 as approved placed as per SANS 10409. (d) Supply and installation of a 1500g/m² non-woven geotextile to GRI GT12 as filtration		100			
2.8.4		layer above the leachate collection layer.	u	m²	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	ш	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	и	m²	1500		
						=	
TAL CARRI	ED TO SUMMARY	<u>w</u>					

SECTION 3: LEACHATE POND

ITEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
3.1	SANS 1200 C	SITE CLEARING Buik Excavation					
3.1.1	PSC 8.2.1	Clear Site Incl. remove trees up to 1m girth to approved areas off Site		ha	1		
	8.2.2	Remove trees of girth: Over and up to:-		1			
3.1.2		(a) 1,0 m to 2,0 m	LI	No.	5		
3.2	SANS 1200 D	EARTHWORKS (EXCAVATION, TO STOCKPILE OR SPOIL)		6071	Successorial		
3.2.1	PSD 8.3.2	a) Excavate in landfill cell(s), to stockpile as ordered including oversize material		m ³	1100		
3.2.2 3.2.3		b) Extra-over for 1) Intermediate excavation 2) Hard rock material		m³ m³	380 360		
3.3	SANS 1200 DM	EARTHWORKS (ROADS, SUBGRADE) Cell bed					
3.3.1	PSDM 8.3.3	Treatment of Excavation Floors (a) Rip and compaction of materials to 93% of MDD		m²	32000		
3.3.2		(b) Import and place 19mm crushed rock aggregate as leachate collection layer 200 mm thick.		m³	110		
		EIII					
3.3.3	PSDM 8.3,4	(a) Cell to required levels with material obtained from cuts and stockpiles compacted to 93% of MDD		m³	10		
3.3.4	PSDM 8.3.4	(b) Fill Cell to required levels with material obtained from borrow pits and compacted to 93% of MDD		m³	10		
3.3.5	PSDM 8.3,4	(c) Fill Cell to required levels with G7 material obtained from commercial sources and compacted to 93% of MDD		m³	50		
		Cell base					
3.3.6	PSDM 8.3.4	(a) Obtain material from site place and compact Clay material (SC/CL) (150 mm thick) to min 95% MDD.		m ³	80		
3.3.7		(b) Obtain material from borrow pits, place and compact Clay material (SC/CL) (150 mm thick) to min 95% MDD.		m³	80		
3.3.8		(c) Obtain material from commercial sources place and compact Clay material (SC/CL equivalent to G7) (150 mm thick) to min 95% MDD.		m ³	75		
3.3.9	PSDM 8.3.5	(d) Import from commercial sources , place 100 mm thick layer of silly sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m³	50		
3.3.10		(e) Import from Borrowpit sources , place 100 mm thick layer of silly sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m ³	50		
3.3.11		(f) Obtain from site stockpile and place 100 mm thick layer of silty sand (G8/G9) as protection layer beneath Sodium Bentonite GCL 4000g/m2.		m³	50		
3.3.12		(g) Construct 300 mm thick Geocells filled with 5% cement stabilised sand layer		m ³	500		
3.3.14	PSDM 8.3.12	Overhaul for all materials and works / spoil on site in excess of free haul distance of 0.5km excluding the haulage of commercial materials		m³-km	22000		
3.4	SANS 1200 DE	FORMING EMBANKMENTS					
		Cell demarcation berm					
3.4.1	PSDE 8.3.4	Preparation exposed surfaces (a) Area covered by the embankment		m²	7000		
	PSDE 8.3.5	(a) Haul from stockpiles place and compact including final trimming and shaping (at G7					
3.4.2		quality) .1 93% of MDD		m³	1000		
3.4.3		.2 95% of MDD		m³	1000		
3.4.4		(b) Import at least G7 from Borrowpits as directed by engineer material to be used for embankment, place and compact including final trimming and shaping .1 93% of MDD		m³	500		
3.4.5		.2 95% of MDD		m³	500		
		(c) Import from commercial sources (G6/G5 material) including haulage, material to be used for embankment, place and compact including final trimming and shaping					
3.4.6		.1 93% of MDD		m³	500		
3.4.7		.2 95% of MDD		m m³	500		
3.4.9		(e) Backfill with soil cement (5% Cement Stabilised Soil with at least G7 material) at	u	m ³	30		
		Perimeter Embankment and Separation Beam	-1:				

SECTION 3 : LEACHATE POND

TEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
AL BROL	IGHT FORWARD						
3.5	SANS 1200 DB	EARTHWORKS (PIPE TRENCHES)					
	PSDB 8.3.2	<u>Excavation</u>		i i			
3.5.1	ļ.	(a) Excavate in all materials for trenches, backfill, compact and dispose of surplus material	LI	m ³	30		
3.3.1		for leachate monitoring pipes	550	3112			
		50-52-2	122	- 1	2		
3.5.2		(c) Restricted excavation for liner penetration details	Ц	m ³	2		
3.5.3		(e) Restricted excavation into embankments to construct 300 mm wide * 300 mm deep	LI	m ³	30		
3,3.3		anchor trench	145577		1000		
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	SEWERS					
	PSLD 8.2.1	HDPE Pipes Supply, lay and bed complete with couplings:)			
201		(a) 110 mm diameter (Φ) perforated HDPE pipe for leachate detection layers	Li	m	240		
3.6.1		The state of the control of the state of the					
3.6.2		(b) Prefabricated HDPE Top Hat as shown in drawings for the Liner penetration detail at Separation Berm.	L1	No.	2	,	
			1241		2		
3.6.3		(c) 1.7mx1.7mx200mm Thick 25 MPa Concrete Slab with 311 reinforcement mesh	и	m ³	2		
3.6.4		(d) Supply and install 110 HDPE 60°- bend pipe connector.	u	No.	4		
3.6.5		(e) Supply and install 110 HDPE 150°- bend pipe connector.	LI	No.	4		
3.7	PSLD 8.2.3	Leachate Monitoring Manhole					
		20 25 8 8 W 200 W WENT W	100	201	26		
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.	21		
3.8	SANS 1200DK	LANDFILL LINER (SUPPLY AND INSTALL)		*			
	1	Geosynthetics - Supply to the site and store safely in accordance with the project and					
	PSDK 8.2.4	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.					
		(a) Supply and install Containment Geotextile , Continuous filament geotextile 270g/m2	770	2	200		
3.8.1		(non-woven needle punched - NWNP) for the Leachate monitoring pipe	Li	m²	300		
		(b) Supply and installation of Geosynthetic Clay Liner (GCL) Reinforced Sodium Bentonite GCL		2	5800		
3.8.2		4000g/m2 .	LI	m ²	5600		
		(c) Supply and installation of Geomembrane to GRI GM-13. 1.5mm thick HDPE double	ū	m ²	5800		
3.8.3		textured to SANS 1526 as approved placed as per SANS 10409.	Li	1112	3000		
		(d) Supply and installation of a 1500g/m² non-woven geotextile to GRI GT12 as filtration	u	m ²	5800		
3.8.4		layer above the leachate collection layer.		- ""			
3.8.5	8.2.5	Stone pitching, where instructed by Engineer	u	m ²	1500		

SECTION 4: STORMWATER DRAINAGE

TEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
		STORMWATER DRAINAGE					
4.1	SABS 1200 C	CLEARING					
4.1.1	PSC 8.2.1	Clear Site incl. remove trees up to 1m girth to approved areas off Site		m²	18500		
4.2	SABS1200 DM	EARTHWORKS (ROADS, SUBGRADE)					
4.2.1	PSDM 8.3.2	Remove topsoil to nominal depth of 150 mm and stockpile		m²	18500		
4.2.2	PSDB 8.3.2 & PSDM 8.3.4	Excavate in all materials for contaminated or clean water drainage and stockpile		m³	700		
4.3		CONTAMINATED & CLEAN WATER DRAINS					
4.3.1	PSDB 8.3.2 & PSG 8.4.3	Construct concrete lining of trapezoidal drains in-situ and in segments not exceeding 2.5 m length; 100mm thick	Li	m²	2800		
	PSA.8.5(b) 1)	Irrigation system for contaminated stormwater and Sub surface drainge with perforated pipes as instructed by Engineer	Li	Prov. Sum	1		
4.3.2	PSA.8.5(b) 2)	Concrete lined drains	Li	m ³	250		
4.4		CULVERTS					
4.4.1	SABS 1200 LE	Supply materials and construct drainage crossing, headwalls and discharge outlet including bedding and backfilling as per drawing details:	Li	No	2		
4.4.2	LE 8.2.2	900*600mm Class 175S Precast Box Culvert	Li	m	20		
4.4.3	SABS 1200 DA	EXTRA OVER ITEMS:					
	PSDB 8.3.2	Extra over for excavation in:					
4.4.3.1		i) Intermediate material		m ³	300		
	PSA.8.5(b) 1)	Pump from Leachate Pond to Leachate Treatment Plant		Prov Sum	1		
	1						
					L:		
	RRIED TO SUMMA	I .					

SECTION 5 : CONCRETE STRUCTURAL

EM o.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
5	SANS 1200 G	SCHEDULE: 5 CONCRETE (STRUCTURAL)					
		Materials Recovery Building , Guard House, Control Room and Washbay					
	8.1.1	FOUNDATION FORM WORK					
		(a) Foundation Formwork (boxing earth / excavation)					1
5.1		.1 Boxing out for Strip Footings (up to 1000mm wide and less than 1500mm deep	LI	m²	200.0		
5.2		.2 Boxing out for Pad Footings (more than 500mm and less than 2000mm wide) and 500mm to 1500 depth	LI	m²	100.0		
		(b) Surfaced formwork					
5.3		.1 Vertical formwork for expansion joints as per the drawing		m²	500		
900	8.1.2	REINFORCEMENT					
5.4		Y bars (a) Strip footings		t	6		
5.5		(b) Pad footing		t	5		
		(c) 395 Mesh for surface bed		t	4		
5.6		(d) Monitoring floor slab		t	0.5		
5.7		R bars					
5.0		(e) As instructed by the engineer		t	2		
5.8							
	8.1.3	CONCRETE					
5.7		Class 30/19 (a) Surface bed (floated as per the drawings)		m³	120		
5.8		(b) Ramo		m³	20		
5.9		(c) Strip footing		m³	10		
5.10		(d) Monitoring floor slab		m³	3		
5.10		Class 25/38			50		
5.11		(a) Foundation bases / pad Footings (as shown in the drawings)		m³	50		
5.12		Class 20/38 (a) Strip footings	100	m³	25		
	8.5	JOINTS					
5.13		(a) Saw Cut		m	320		
5.14		(a) Expansion		m	180		
		EXCAVATION AND BACKFILLING					
		Excavate in all materials, backfill and compact to 93% mod AASHTO density, and dispose of surplus and unsuitable materials within the freehaul distance for trenches					
	8.3.2	(a) .2 Over 1m and up to 2m wide					
5.15		.1 Up to 1m deep		m³	320		
5.16		.2 Over 1m and up to 2m deep		m³	110		
	8.3.2	(b) Extra over items 8.3.2 (a) for				1	
5.17	3,0.2	.1 Hard rock excavation		m³	50		
J. 11		(c) Extra over items 8.3.2 (a) for					
5.18		.1 Backfilling with imported G7 material		m³	150		

SECTION 6: MASONRY WORK, WATERPROOFING, FLOOR COVERINGS, PLASTIC LININGS, PLASTERING, TILING, GLAZING AND PAINTWORK

TEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
6	SANS 2001-CM1	SCHEDULE: 6 MASONRY WORK. WATERPROOFING, FLOOR COVERINGS, PLASTIC LININGS, PLASTERING, TILING, GLAZING AND PAINTWORK			9		
		Per Architect's specification, and strength as per Engineer's specification (Materials Recovery Building ,					
		MASONRY					
		Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar					
	PSC 8.2	Foundation Brickwork					
.1		(a) Single brickwork (110mm)		m²	200		
.2		(b) Single brickwork (220mm)		m²	600		
		Brick wall from surface bed level up to 3.2m					
.3		(a) Single brickwork (110mm)		m²	120		
.4		(b) Single brickwork (220mm)		m²	300		
3.5		Brick wall above 3.2m (a) Single brickwork (110mm)		m²	60		
6.6		(b) Double brickwork (220mm)		m²	150		
10.00		Brickwork Sundries					
_				m	350		
5.7		(a) 75mm Wide reinforcement built in horizontally (b) 150mm Wide reinforcement built in horizontally		m	800		
3.8		*					
3.9		(c) 90 x 75mm Pre-stressed fabricated lintels in lengths not exceeding 3m Galvanized hoop iron cramps, ties, etc (40 x 1.6mm wall tie strip shot		m	80		
.10		(d) pinned to steel and with tie bent out and built into brickwork)		No.	40		
.11		Galvanized hoop iron cramps, ties, etc (40 x 1.6mm wall tie strip shot (e) pinned to steel and with tie bent out and built into brickwork)		No.	30		
.12		6mm Diameter roof tie 2m girth bent double with one end fixed to timber (f) and other built into brickwork		No.	80		
		DAMPPROOFING OF WALLS AND FLOORS					
		One layer of 375 micron "Brikgrip DPC" or similar approved embossed damp proof course well lapped at joints and intersections bedded and joined in cement mortar					
.13		(a) In walls		m²	300		
.14		(b) In walls in vertical cavities at doors and windows		m²	150		
.15		(c) In walls in horizontal cavities at doors and windows			W1039027		
15		One layer of 250 micron "Consol Plastics Gunplas USB Green" or similar approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"		m²	150		
.16		(a) Under surface beds, slabs and paving		m²	800		
.10		JOINT SEALANTS. ETC					
		(a) Approved silicone pointing	-				
.17		.1 Between door & window frame and wall		m	40		
.18		.2 On wall expansion joints as specified by the engineer		m	200		
		PLASTERING					19
.19		(a) Screeds to steel trowelled, on concrete: 30mm thick on floors		m²	110		
.20		(b) External 20mm Cement plaster on brickwork or blockwork as directed					
.21		by the Engineer (c) Internal plaster from walls and columns ad directe by the Engineer.		m²	120		
		PAINTWORK		m²	180		
		1 On Wood					
.22		Undercoat and minimum 2 coat gloss enamel (a) On doors (Internal)		m²	50		
100005		(a) On additionary		2200	200		
.23		(b) On doors (External)		m²	50	L	

SECTION 6: MASONRY WORK, WATERPROOFING, FLOOR COVERINGS, PLASTIC LININGS, PLASTERING, TILING, GLAZING AND PAINTWORK

ITEM No.	PAYMENT REFER.		DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
OTAL	BROUGHT FO	RWARD						
6	SANS 2001-CM1	TILING, C						
		2	On Fibre Cement Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint					
6.24			(a) On fascias and barge boards		m²	10		
		3	On Metal Undercoat and minimum 2 coat gloss enamel					
6.25			(a) On door frames		m²	10		
6.26			(b) On gutters and down pipes		m²	50		
6.27			(c) On windows	x	m²	15		
6.28			(d) On door and window budglar proofing		m²	15		
			TILING					
6.29			(a) Inside bathroom and toilet		m²	40		
6.30			(b) Toilet and bathroom installation and accessories including plumb	ina	Prov Sum	1		
			GLAZING TO STEEL WITH PUTTY					
			Glazing to steel with putty					
6.31			(a) 6.38mm Thick clear laminated normal strength glass up to 3.0m	12	m²	30		

SECTION 7: STRUCTURAL STEEL, AND METALWORK

eM o.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
7	SANS 0120-2 H	SCHEDULE: 7 STRUCTURAL STEEL. AND METALWORK					
		Per Architect's specification, and strength as per Engineer's specification (Materials Recovery Building , Guard House, Control Room and Washbay)					
	PS 8.2	Procure, fabricate, supply and and assemble as per the drawings					
.1		(a) 203x133x25 I Colums		t	2.00		
2		(b) 203x133x25 I Beams		t	2.00		
3		(c) IPE180 (180mm x 91mm) Rafter		t	2.00		
4		(d) IPE140 (140mm x 73mm) horizontal bracings		t	1.50		
5		(e) UC 254x73		t	5.00		
6		(f) UB 356x45		t	1.50		
7		(q) UB 203x25		t	3.00		
8		(h) 150x50x20x2.5 Cold formed Purlins		t	2.00		
9		(i) Sag angles, bracing angles, knee stay base plates, stiffeners etc		t	3.50		
10		(i) Stair case according to the shop drawing (as per engineer's detail)		Prov. Sum	1.00		
11		(k) Guardhouse gate according to the drawings		Prov. Sum	1.00		
12		(I) Shop Drawings					
		.1 Provision for supplying a set of shop drawings for all structural steelwork		Lump Sum	1		
.13		.2 Supply of steel connections as per the shop drawings (bolts, nuts, welding, etc.)		Prov Sum	i		
.14		.3 Additional requirements as per Engineer's Instructions		Prov Sum	1		
		Profiled Metal Sheeting 0.8mm thick IBR (Z275) Steel roof sheeting by Clotan Steel or similar approved with Chromadek finish to top and protective primer coating to underside, in single lengths fixed to steel purlins and rails.					
15		(a) Roof covering with picth not exceeding 25 degrees.		m²	1000		
16		(b) 0.8mm side flashing		m	200		
17		Paint Work (a) Coat of inorganic zinc ethyl silicate primer as per manufacturers specification.		Lump Sum	1		
		aposinousor.					
.18		(b) Additional topcoats as per engineer's instruction		Lump Sum	1		
.19		Steel Door Frames (a) 1,6mm Double rebated frames suitable for one brickwalls: Frame for door 813 x 2032mm high including burglar bars.		No.	2		
20		Steel Windows (a) Window type TS01 1511x 949mm high including burglar bars		No.	2		
200				No.	4		
21 22	-	(b) Window type TS02 7.1000 x 949mm high including burglar bars (c) Window type TS03 7.533 x 949mm high including burglar bars		No.	4		
				, AG			

SECTION 8: STRUCTURAL TIMBER, CARPENTRY, JOINERY AND ROOF COVERINGS

TEM No.	PAYMENT REFER.	DESCRIPTION	LABOUR INTENSIVE	UNIT	QTY.	RATE	TENDER AMOUNT
8	SANS 2001-CT2	SCHEDULE: 8 STRUCTURAL TIMBER. CARPENTRY, JOINERY AND ROOF COVERINGS					
		Guard House and Control Room					
	8.1.1	ROOFS Procure, fabricate, supply and and assemble as per the drawings					
		For supply and complete installation of roof trusses including all necessary bracing, gangboarding, purlins, splayed eaves purlins, wall plates, hurricane clips, wire tie etc.					
8.1		(a) Control Room		m²	40		
8.2		(b) Guard house		m²	40		
		(c) Roof Coverings 0.8mm roof sheeting in chromadek finish fixed to timber purlins					
8.3		.11		m²	80		
8.4		.2 12" Thermal resistance sisalition laid on purlins		m²	80		
		(d) Rainwater Disposal 1 100 x 100 x 0.6mm Standard rainwater seamless metal gutters fixed with gutters brackets including closed ends.			450		
8.5				m	150		
8.6	70	$75 \times 100 \times 0.6$ mm Thick galvanised rainwater downpipes fixed to .2 wall.		m	40		
8.7		.3 Extra over rainwater pipe for eaves offset and bends complete.		No.	30		
		EAVES. VERGES. ETC.					
8.8		(a) Pressed fibre-cement - 15 x 230mm Fascias and barge boards including galvanised steel H-profile		m	240		
		DOORS, ETC.			1		
8.9		Wrought meranti doors hung to steel frames (a) 44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stilles, 22 x 150mm hiddle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)		No.	6		
		SKIRTINGS					
8.10		(a) Meranti timber skirting nailed to walls		m	50		
8.11		CEILINGS (a) Dry wall ceiling attached to the roof timber rafter		m²	40		
0.11	PSA 8.5(b) 1)	PRIME COST ITEMS		363	1000		
		a) Construction of Recycling area as engineer specifications		Prov. Sum	1.00	R3,000,000.00	R3,000,000.00
		b) Contractor's overheads, charges and profit of item above		%	R3,000,000.00		

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	Acccomodating 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		
	(I) movable barriers (type indicated)	No	5		

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:			29	
	(a) Temporary deviations (b) Existing roads used as temporary deviations	km-pass km-pass	9.0 9.0		
1500	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

SECTION 1700

CLEARING AND GRUBBING

B17.01 Clearing and grubbing including Sand:	AMOUNT
Removal a) Normal areas	
(i) Within the road reserve ha 1.50	
(ii) In borrow areas ha 2.25	
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

DRAINS					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1TEM 21.01	DESCRIPTION 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 (ii) Exceeding 1,5m and up to 3,0m	m ³ m ³	225 113	RATE	AMOUNT
2100	TOTAL CARRIED FORWARD TO SUMMARY			•	

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE B : ROADWORKS

SECTION 200
PREFABRICATED CULVERTS

	ATED CULVERTS				ANGUET
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:				ø
(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			1	

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

SECTION 2300

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	CONCRETE KERBING, CONCRETE	1	1		
	CHANNELLING, CHUTES AND		1 1		
	DOWNPIPES, AND CONCRETE LININGS	1	1 1		2
	FOR OPEN DRAINS				
23.01	Concrete kerbing				
LI	(a) Precast kerbing to SABS 927				
	5,0	793.00	2000		
	(2) Figure 8B (Mountable)	m	2000		
23.02	Concrete kerbing-channeling combination				
20.02	Controller Kerbing Sharmoning Community				
	(2) Figure 8B kerb (Mountable) Type C:				
			302		
	(i) with 300mm wide concrete channel	m	302		
23.07	Trimming of excavations for concrete-lined				
20.07	open drains:				
(a)	In soft material	m²	2250		
(b)	In hard material	m²	225		
00.00	Concrete lining for anon drains:				
23.08 LI	Concrete lining for open drains:				
	Cast in situ class 25/19 concrete				
1-7	lining in v-drains*	m³	30		
(h)	Class U2 surface finish to cast in situ				
(0)	concrete in v-drains*	m²	300		
LI					
	Formwork to cast in situ concrete lining for				
	open drains (class F2 surface finish):				
	open drains (class i 2 sandes inner).				
(a)	To sides with formwork on the internal face only	m²	300		
(h)	To sides with formwork on both internal and	m²	603.0		
(D)	external faces (each face measured)				
	To ends of slabs				
11	10 ellas di sians				
23.1	Sealed joints in concrete linings of open drains				
	(a) Polysulphide sealants	m	3		
	(b) Soft Board expansion	m	44		
22.40	Stool rainforcing:				
23.12	Steel reinforcing:	kg	140.56		
LI (C)	Welded steel fabric(ref 193)	l "g	110.00		
23.13	Polyethylene sheeting (0,15 mm thick) for		17.1 2000		
Company Company	concrete-lined open drains	m²	450.00		12
LI	A				
23.14	Cutting paving surfacing and pavement				
	layers for concrete kerbing, channelling or		ergagineri eran		· I
	concrete-lined drains	m	2302.00		
	TOTAL CARRIED FORWARD TO SUMMARY		1		

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	m³	31250		
	(b) Exceeding 1,5m and up to 3,0m	m³	250		
	(b) Exceeding Hem and approximation	A.A. VI.			
31.03	Finishing -off borrow areas in:				
01.00			0.05		
	(a) Hard material	ha	6.25		
	(b) Intermediate Material	ha	1.25		
		. 14			
		1-4-1			
	2 L				1 344
					1 11
	-				
3300	TOTAL CARRIED FORWARD TO SUMMAR				

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	m³	7,975.8		
33.03	Extra over item 33.01 for excavating and breaking down material in:				
	(a) Intermediate excavation	m³	1,595.2		
	(b) Hard excavation	m³	1,196.4		
33.04	Cut to spoil, including free haul up to 1,0 km. Material obtained from :				
	(a) Soft excavation	m³	5,184.3		
B33.04	(d) Boulders class A hard Excavation including rock Blasting	m³	200.0		
33.10	Roadbed preparation and the compaction of				
	(b) Compaction to 93% of modified AASHTO density	m³	2,459.7		
33.13	Finishing-off cut and fill slopes, medians and interchange areas:				
	(a) Cut slopes	m²	7,550.0		
	(b) Fill slopes	m²	7,550.0		
B33.14	Stockpiling of material (for re-use)	m³	2,592.1		
	OVERHAUL				
33/16.02	Overhaul (extra over iterms 33.01 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m³.km	118,440.6		
					N
3300	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

SECTION 3400

PAVEMENT LAYERS OF GRAVEL MATERIAL

	V 1				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B34.01	Pavement layers constructed from gravel taken fromcut,stockpile and commercial source, incl. free-haul up to 1,0 km.			á	
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)	m³	2,706.30		
B34.01	(c) Gravel subbase (stabilized gravel) compacted to: (i) 95% of modified AASHTO density Class G5 (150mm compacted layer thickness)	m³	2,570.40		
B34.01	(f) Gravel base (chemically stabilized material) compacted to: (ii) 98% of modified AASHTO density (150mm compacted layer thickness)	m³	2,434.50		
34.03	Pavement layers constructed from gravel obtained from existing pavement layers :				li fi
(1)	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 iterms 34.01 on material hauled in excess of the free-haul distance of 1km (ordinary overhaul)	m³.km	69,400.80		
3400	TOTAL CARRIED FORWARD TO SUMMARY				

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
ITEM	DESCRIPTION	Oldi	45.00		
5.01	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		
35.02	Chemical stabilizing agent:(Specific Road cement only)		257.00		
C5.4.14	(a) Cement (CEM II B-L 32.5N,Sure Road or Road Cem brand,or any road cement) Trial section for a chemically stabilised layer	t	257.99	0	
	(a) Base: (thickness 150mm)	m³	258.00		
	(b) Sub Base: (thickness 150mm)	m³	264.00		
		kl	218.16		
35.04	Provision and application of water for curing stabilized layers				
				a	
	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		1
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	m³	172.05		

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE A: ROADWORKS

SECTION 4100

PRIME COA				DATE	AMOUNT
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B41.01	PRIME COAT Prime coat:				
	(e) MC-30 cut-back bitumen	litre	3321.12		
					1 4 1 1 3
					-
1					
				H	
	TOTAL SECTION 3400 CARRIED	TO SUMMARY			

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

SCHEDULE A: ROADWORKS

SECTION 4200

ASPHALT BASE AND SURFACING

AOI HALI	BASE AND SURFACING	T	QUANTI		
ITEM NO	DESCRIPTION	UNIT	TY	RATE	AMOUNT
	ASPHALT BASE AND SURFACING				
42.02	Asphalt surfacing (30mm thick using 60/70 penetration grade bitumen) on approaches				
		m²	4151.4		
	(a) Continously graded (medium)	1			
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:				
42.00					
	(a) Cement	t	1.0		
42.08	100mm cores in asphalt paving & Testing	No	4.00		
		1			
	9				
				2	
*		1			
	,				
	TOTAL SECTION 3400 CARRIED TO SUMMARY	,			

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

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
5100	PITCHING, STONEWORK AND PROTECTION AGAINST EROSION					
	AGAINST EROSION					
B51.01	Stone masonary walls:					
LI (b)	Grouted stone pitching	m²	2,250			
51.03	Stone masonary 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			

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

SECTION 5200 GABIONS

GABIONS		LIMIT	OTV	DATE	ARACHINIT
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5200	<u>GABIONS</u>				
52.01	Foundation trench excavation and backfilling :				
			07.00		
LI (b)	In all other classes of material	m³	27.00		
			27.00		
52.02	Surface preparaton for bedding the gabions	m²	27.00		
50.00	O. It is now to				
52.03	Gabions :				
LI (a)	Colvenies decision hoves:				
(a)	Galvanised gabion boxes : Mesh size: 80mm x 80mm				
	Wire diameter : 2.7mm				
	MONTH OF THE PROPERTY OF THE P				
	Diaphragm spacing : 1m				
(i)	2m x 1m x 1m	m³	540.00		
(1)	2111 × 1111 × 1111		0.10.00		
(ii)	3m x 1m x 1m	m³	540.00		
(11)					
(iii)	4m x 1m x 1m	m³	50.00		
LI					
52.04	Filter fabric : (Grade U24 or approved equivalent)	m²	4,050.00		
V-00					
					1
TOTAL	CARRIED TO SUMMARY				
		49			

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

GUARDRA		UNIT	QTY	RATE	AMOUNT
TEM	DESCRIPTION	ONT	G(11	10112	
5400	GUARDRAILS				
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		TI .
54.04	End treatments		i.e		
(a) (d)	(ii) End treatments where single guardrail sections are used (including additional posts) End wings (b) Bull noses End teatments in accordance with the drawings where single guardrail sections are use (e) End treatments in accordance with the drawings where double guardrail sections are used	No. No. No.	2 2		
54.05 (a)	Additional guardrail posts Timber	No.	1		. *
LI 54.06	Reflective plates	No.	28		
- 12-13-13-13-13-13-13-13-13-13-13-13-13-13-	TOTAL CARRIED TO SUMMARY				

SECTION 5600

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

SECTION 5600

ROAD SIGNS

ΓΕΜ	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
50.04					
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)		= ₁₀		
LI	(i) Area not exceeding 2m²	m²	120.00	=	
56.02	Extra over B56.01 for using:				
00.00	(a) Background of retro-reflective				
	material:				100
	(iii) Class I	m ²	120.00		
	(III) Glass I		120.00		
	(b) Lettering, symbols, numbers, arrows, emblems				
	(ii) Class III	m ²	120.00		
		1,000	20010000000		
56.03	Road sign supports (overhead road sign structures excluded)			- Ta	
				1	
	(a) Steel tubing (wall thickness 3mm)				
	No. of the second secon				
LI	(i) 75mm	t	6.00		
56.05	Excavation and backfilling for road	m ³	4.00		
56.05			4.00		
	sign supports (not applicable to				
	kilometre posts)			82	
56.06	Extra over item 56.05 for cement-	m ³	8.00		
00.00	treated soil backfill		0.00		
	illeated 3011 backini				
56.07	Extra over item 56.05 for rock excavation	m ³	6.00		
00.0.			1		
56.12	Hazard plates:				
	(a) 200mm*800mm	No	10.00		
			1 m 100 000 00000		
			-		
600.00	TOTAL CARRIED FORWARD TO SUMMARY				

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

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	m²			
	(e) Yellow lettering and symbols	m²	1		
	(f) Transverse lines, painted island and arrestor bed markings (any colour)	m²	160		
B57.06	Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	0.50		
B57.07	Road studs				(10)
	Permanent road studs compliant to SANS 1442 (yellow,bi-directional,surface bonded with anchor shank,glas)	No.	200		
-					
	2				
5700	TOTAL CARRIED TO SUMMARY				

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

SECTION 5900

FINISHING THE ROAD AND ROAD RESERVE

	IG 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	5	
5900	TOTAL CARRIED FORWARD TO SUMMAR	Y			

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025 SCHEDULE A: ROADWORKS SECTION 7300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7300	CONCRETE BLOCK PAVING FOR ROADS	-			
73.01	Concrete Block Paving:				
Ш	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 : (a) Provision of materials	Prov Sum	1.00		
	(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		
				i	
	TOTAL SECTION 3400 CARRIED TO SUMMARY				

GREATER LETABA MUNICIPALITY

CONTRACT NUMBER: GLM015/2025

SCHEDULE B: ROADWORKS

SECTION 8100

TESTING MATERIALS AND WORKMANSHIP

Other special tests requested by the Engineer:				
Liigineer.				
(a) Cost of testing	P. Sum	1.00	300,000.00	300,000.00
(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		
			.,	
				æ
	*			
	5			
	(c) Charge on provisional sum for overheads and profits	(c) Charge on provisional sum for	(c) Charge on provisional sum for overheads and profits % 1,140,000.00	(c) Charge on provisional sum for overheads and profits % 1,140,000.00

GREATER LETABA MUNICIPALITY CONTRACT NUMBER: GLM015/2025

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

	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:		
CONTINGENCIE	S (10% OF SUB TOTAL)	
CONTRACT PRI	CE ADJUSTMENT (2.5% OF SUB TOTAL)	
SUB TOTAL:		
VALUE ADDED	ΓΑΧ (15%)	
TENDER SUM C	ARRIED TO FORM OF TENDER	