

HEAD OFFICE

303 Church Street
Private Bag X 44
MOGWADI 0715
Telephone: (015) 501 0243/4
Fax no : (015) 501 0419
E-mail: info@molemole.gov.za



ALL CORRESPONDENCE TO BE ADDRESSED TO THE MUNICIPAL MANAGER

MOREBENG BRANCH OFFICE

25 Cnr. Roets & Viviers Street
MOREBENG 0810
Telephone : (015) 501 2371
Fax no : (015) 397 4334

www.molemole.gov.za

Enquiry: Ralephenya T.D

TECH-020-2024/25

SUPPLY CHAIN MANAGEMENT UNIT

INVITATION TO BID

ADDENDUM

Project Name	Project Number
Construction of Ramokgopa Landfill Site (Multi-Year)	TECH-020-2024/25

This communique serves to clarify bidders on the **Bill of Quantities** in the original tender document. Bidders are advised to ignore the **Bill of Quantities** in the original document and consider the following **Bill of Quantities/ Pricing Schedule**.

The closing date for the bid is 13 August 2024

Vision: A developmental people driven organization that serves its people

Mission: To provide essential and sustainable services in an efficient and effective manner

MOLEMOLE LOCAL MUNICIPALITY

CLASS B LANDFILL FACILITY

CONTRACT NUMBER: MLM/TECH/020/2024/25

BILL OF QUANTITIES

NOTE:

The following general conditions and standard specifications apply:

- (1) General Conditions of Contract 2010
- (2) SABS 1200 - Standardized Specification for Civil Engineering Construction
- (3) SANS 10409:2005 Design, selection and installation of geomembranes.

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MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 1 : PRELIMINARY AND GENERAL

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SANS 1200 A	<u>GENERAL</u>				
1.1		<u>Fixed Charge and Value Related Items</u>				
1.1.1	8.3.1	<u>Contractual Requirements, Sureties and Insurance</u>	Sum			
1.1.2	8.3.2	<u>Establishment of Facilities on the Site</u>				
1.1.3	8.3.2.1	FACILITIES FOR ENGINEER				
		a) Furnished offices (1 No 8m ²)	Sum			
		b) Provision for power	Sum			
		c) Nameboard x 1	Sum			
1.1.4	8.3.2.2	FACILITIES FOR CONTRACTOR				
		a) Offices, stores, workshops	Sum			
		b) Tools and equipment	Sum			
		c) Toilets and ablutions	Sum			
		d) Temporary fencing off site of construction camp	Sum			
		e) Provision of water, power and communication	Sum			
		f) Refuse containers and disposal	Sum			
		g) Dealing with water	Sum			
1.1.5	8.3.3	OTHER FIXED CHARGE OBLIGATIONS				
		a) Setting out	Sum			
		b) Security	Sum			
		c) As built survey	Sum			
		d) Obligations in respect of Health and Safety Act	Sum			
		e) Fixed P&G for lining Contractor	Sum			
1.1.6	8.3.4	<u>Removal of site establishment</u>	Sum			
1.2	8.4.2	<u>Scheduled Time Related Items</u>				
1.2.1	8.4.1	<u>Contractual Requirements, Sureties and Insurance</u>	Month	10		
1.2.2	8.4.2	<u>Operation and Maintenance of Facilities on Site</u>				
1.2.3	8.4.2.1	FACILITIES FOR ENGINEER				
		a) Furnished offices (1 No 8m ²)	Month	10		
		b) Provision for power	Month	10		
1.2.4	8.4.2.2	FACILITIES FOR THE CONTRACTOR				
		a) Offices, stores, workshops	Month	10		
		b) Tools and equipment	Month	10		
		c) Toilets and ablutions	Month	10		
		d) Temporary fencing off site of construction camp	Month	10		
		e) Provision of water, power and communication	Month	10		
		f) Refuse containers and disposal	Month	10		
		g) Dealing with water	Month	10		
1.2.5	8.4.5	<u>Other Time Related Obligations</u>				
		a) Setting out	Month	10		
		b) Security	Month	10		
		c) Surveys	Month	10		
		d) Lining Contractor	Month	5		
		e) Obligations in respect with Health and Safety	Month	10		
		f) Obligations i.t.o. licence conditions	Month	10		
1.2.6	8.4.3	<u>Supervision for duration of construction</u>	Month	10		
1.2.7	8.4.4	<u>Company & Head Office Overhead Costs</u>	Month	10		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
1.3	8.5	Sums Stated Provisionally by Engineer				
1.3.1		<u>Acceptance Testing</u>				
	8.5 b) 1)	a) Carry out acceptance testing (as required by Engineer)	P/Sum	1	R 150,000.00	R 150,000.00
	8.5 b) 2)	b) Overheads, charges and profit on item above	%			
1.3.2		<u>LED Program (Skills Development)</u>				
	8.5 b) 1)	a) 2X Nominated learners for duration of Contract.	P/Sum	1	R 240,000.00	R 240,000.00
	8.5 b) 2)	b) Overheads, charges and profit on item above	%			
1.3.3		<u>Community</u>				
	8.5 b) 1)	Community Liaison Officer	Prov Sum	1	R 100,000.00	R 100,000.00
	8.5 b) 2)	Overheads, charges and profit on item above	%			
1.3.4		<u>Electronic Leak location testing</u>				
	PS	a) Carry out Independent Electronic leak location testing on exposed geomembrane liner system in accordance with ASTM D7953 - 14 'Arc testing'	Prov Sum	1	R 90,000.00	R 90,000.00
	PS	b) Carry out Independent Electronic leak location testing	Prov Sum	1	R 770,000.00	R 770,000.00
		c) Overheads, charges and profit on item above	%			
1.4	SANS 1200 A	DAYWORKS AND PLANT HIRE.				
1.4.1	8.7	<u>Dayworks:</u>				
		<u>a) Normal Time:</u>	hr	Rate only		
		(i) Supervisor	hr	Rate only		
		(ii) Artisan	hr	Rate only		
		(iii) Operator	hr	Rate only		
		(iv) Labourer	hr	Rate only		
1.4.2		<u>b) Plant</u>				
		(i) Loader 150kW	hr	Rate only		
		(ii) Grader 130 kW	hr	Rate only		
		(iii) Vibrating roller 12t	hr	Rate only		
		(iv) Water cart 10000l	hr	Rate only		
		(v) Tip truck 10 m3 capacity	hr	Rate only		
		(vi) Excavator 20t	hr	Rate only		
		(vii) Bull Dozer <160 kW	hr	Rate only		
		(viii) TLB 73 kW	hr	Rate only		
		(ix) Lightweight tracked Bobcat or similar <70 kW	hr	Rate only		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 2A : PHASE 1 LANDFILL CELL 1

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2.1	SANS 1200 C	CLEARING				
2.1.1	8.2.1	Clear and Grub Clear Site incl. remove trees up to 1m girth on site to approved approved temporary stockpile on Site	m ²	16,374		
2.2	SANS 1200 D	EARTHWORKS				
2.2.1	8.3.1.2	Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m ²	16,374		
2.2.2	8.3.2	<u>Bulk Excavation</u> Excavate in all materials and use for embankments or backfill or dispose, as ordered by engineer. i) Place in embankment where applicable (incl. edge control and separation berm) and compact in 150mm layers to 95% modified AASHTO maximum density	m ³	5,464		
		ii) Cut to Stockpile	m ³	36,998		
2.2.3	8.3.2b)	Extra over for excavation in: 2) Hard excavation	m ³	rate only		
2.2.4	8.3.3	<u>Restricted Excavation</u> a) Excavate in all materials where applicable for trenches, backfill and compact to 93% MoD AASHTO and dispose of surplus material depth : (0.0m -1.0m)				
	PSD	i) Edge berm anchor trench (600mm x 500mm) for GCL, HDPE geomembrane and geotextile (backfill with selected material & stabilise with 10% by density OPC - cement to be included in rate)	m ³	176		
		iii) Cell base sumps - place in stockpile	m ³	16		
		iv) V-drains for leachate collection pipe in cell base - place in stockpile	m ³	38		
	PSD	v) Cell base and side slope trenches for leak detection riser pipe (backfilled with 10% by density OPC sand).	m ³	12		
		vi) Berm crest trenches 800mm wide for leachate pipe and backfill in layers n.e 200mm to 93% Mod AASHTO	m ³	128		
2.2.5	8.3.4	<u>Importing from commercial sources or borrow pits</u> <u>Extra over items 8.3.1 & 8.3.2 above:</u>				
		a) Import G7 quality material place in layers 150mm thick and compact to 93% modified AASHTO maximum density for cell separation and control berms.	m ³	rate only		
		b) Import 150mm thick layer G7 quality material place and compact to min 93% modified AASHTO maximum density as a base preparation layer.	m ³	rate only		
2.2.6	8.3.10	<u>Topsailing</u> Take from stockpiles and place 100mm thick layer on outer embankments of landfill	m ²	2,634		
2.3	SANS 1200 DM	EARTHWORKS (SUBGRADE)				
2.3.1	8.3.3	<u>Treatment of subgrade</u> a) 150mm in-situ subgrade preparation and compaction of materials				
	8.3.3a.2	i) Minimum of 93% modified AASHTO maximum density including ripping, watering, shaping and compaction of in-situ materials in the cell as shown on drawings.	m ²	16,374		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
2.3.2	8.3.3	<u>Selected Layers from Commercial Sources</u>				
	PS	a) Import and place >38mm washed stone aggregate for leachate collection layer, i) Landfill side slopes, 150mm thick ii) Landfill base, 150mm thick iii) Leakage detection sumps	m ³ m ³ m ³	1,718 737 16		
2.3.3	8.3.3	<u>Selected Fill Layers from stockpile.</u>				
		i) Selected soil layer 500mm thick as protection layer to top of berm, placed in layers of max. 150mm thick, nominally compacted ii) Selected layers placed in Ramp on top of liner layerworks in layers not exceeding 150mm compacted to 93% Mod AASHTO	m ³ m ³	878 108		
2.4	SANS 1200 DK	GABIONS AND PITCHING				
	8.2.4	<u>Geotextile (or other geosynthetic materials)</u>				
	SANS10409	Landfill Base				
2.4.1	8,2,4 SABS 1200DK	Supply and install 3.7kg/m ² Geosynthetic Clay Liner in accordance with GRI-GCL 3 specifications	m ²	4,916		
2.4.2	SANS 10409	Supply and install 1.5mm H.D.P.E smooth geomembrane GRI-GM13 liner.	m ²	4,916		
2.4.3	8,2,4 SABS1200DK-PS	Supply and installation of non woven, Needle punched geotextile, Nominal mass 1000g/m ² - as liner protection below leachate collection layer	m ²	4,916		
2.4.4	PS	Supply and installation of Non Woven, Needle punched geotextile, Nominal mass 1000g/m ² - as liner protection over sumps: 9m x 7m, and over LD riser pipes 12m x 3m.	m ²	200		
2.4.5	8,2,4 SABS1200DK	Supply and installation of Woven geotextile with a Nominal mass 200g/m ² - as separation/drainage layer above leachate collection layer.	m ²	4,916		
2.4.6	8,2,4 SABS1200DK	Supply and installation of Non Woven, Needle punched geotextile, Nominal mass 200g/m ² - As separation layer for the leak detection drain & sumps	m ²	958		
2.4.7	8,2,4 SABS1200DK	Supply and installation of a geotextile as separation layer under Ramp - Needle punched non woven geotextile, Nominal mass 200g/m ² .	m ²	211		
		Side Slopes				
2.4.8	8,2,4 SABS 1200DK	Supply and install 3.7kg/m ² Geosynthetic Clay Liner in accordance with GRI-GCL 3 specifications	m ²	11,458		
2.4.9	SANS 10409	Supply and install 1.5mm H.D.P.E double side texture geomembrane GRI-GM13 liner, coarser texture facing down.	m ²	11,458		
2.4.10	8,2,4 SABS1200DK	Supply and installation of non woven, Needle punched geotextile, Nominal mass 1000g/m ² - as liner protection below leachate collection layer	m ²	11,458		
2.4.11	8,2,4 SABS1200DK	Supply and installation of Woven geotextile with a Nominal mass 200g/m ² - as separation/drainage layer above leachate collection layer.	m ²	11,458		
2.4.12	SANS 10409	E.O ordinary 1,5mm H.D.P.E pre-fabricated geomembrane for 250mm (Φ) diameter boot seal.	no	2		
2.5	SANS 1200 LB	BEDDING (PIPES)				
2.5.1	8.2.2	<u>Supply only of bedding by importation:</u>				
	8.2.2.3	From commercial sources: a) Import and place 19mm crushed stone as filter stone around 110mm diameter (Φ) double walled corrugated HDPE pipe leachate leak detection pipe, stone layer 200mm thick b) 100mm thick washed River Sand backfill layer to leakage detection finger drains.	m ³ m ³	77 20		
2.6	SANS 1200 LD	PIPE WORK				
	8.2.1	<u>Supply, lay and bed complete with couplings:</u>				
2.6.1	8.2.1	Supply and install 160mm diameter (Φ) double walled corrugated HDPE pipe with slotted perforations and ring stiffness > 450 kPa - in the leachate collection layer.incl all coupling, bends etc.	m	479		
2.6.2	8.2.1	Supply and install 110mm diameter (Φ) double walled corrugated HDPE pipe with slotted perforations and ring stiffness > 450 kPa - in the leachate collection layer.incl all couplings, bends etc.	m	479		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
2.6.3	8.2.1	Supply and install 200mm diameter (Φ) PE 100, PN 12.5 HDPE leachate collection pipe on berm crest and from leachate collection manholes to leachate dam, incl all fittings details to collection manholes and leachate collection dam as shown on drawings.	m	161		
2.6.4	8.2.1	Supply and installation of 250mm diameter (Φ) PE100 PN 10 HDPE riser pipes for leachate collection incl all fittings details, to berm crest manholes as shown on drawings.	m	50		
2.6.5	8.2.1	Supply and installation of 250mm diameter (Φ) PE 100 PN 10 HDPE riser pipes for leakage detection incl all fittings details to berm crest manhole as shown on drawings.	m	50		
2.7	SANS 1200 LE	STORMWATER DRAINAGE				
	8.2.8 PS	Pre-fabricated HDPE manholes 1200mm diameter (Φ), wall thickness of 20mm including base end cap, extrude welded, complete with HDPE step irons and removable cover and frame for leachate leak detection and collection, depths:				
2.7.1		0m to 1.5m	No.	6		
2.7.2		1.5m to 2.0m	No.	0		
2.7.3		2.0m to 2.5m	No.	0		
2.7.4		≥ 2.5m	No.	0		
2.7.5	PSG	1.5x 1.5m concrete footing for manhole, 200 thk 25 Mpa with 1 layer ref mesh 193	No.	6		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 4 : LEACHATE CONTAINMENT

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4.1	SANS 1200 C	CLEARING				
4.1.1	8.2.1	Clear and Grub Clear Site incl. remove trees up to 1m girth on site to approved approved temporary stockpile on Site	m ²	4,962		
4.2	SANS 1200 D	EARTHWORKS				
4.2.1	8.3.1.2	Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m ²	rate only		
4.2.2	8.3.2	<u>Bulk Excavation</u> Excavate in all materials and use for compacted fill of leachate dam or dispose, as ordered by engineer.				
	8.3.1 b)	i) Place in leachate dam where applicable and compact in 150mm layers to 93% modified AASHTO maximum density	m ³	2,728		
		ii) Cut to Stockpile	m ³	3,411		
4.2.3	8.3.2b)	<u>Extra over for excavation in:</u> 2) Hard excavaton	m ³	rate only		
4.2.4	8.3.3	<u>Restricted Excavation</u> a) Excavate in all materials where applicable for trenches, backfill and compact to 98% MoD AASHTO and dispose of surplus material depth : (0.0m -1.0m)				
		i) Edge berm anchor trench (500mm x 700mm) for GCL, HDPE geomembrane, geotextile and woven concrete filled lattice layer	m ³	102		
		ii) Ditto for Sump riser pipes trenches	m ³	17		
		b) Excavate in all materials and stockpile				
		i) Leachate dam base sumps	m ³	21		
		ii) Leachate dam sub-soil pipes trenches (backfill 100mm coarse sand)	m ³	27		
		iii) Leachate Dam spillway	m ³	30		
4.3	SANS 1200 DM	EARTHWORKS (SUBGRADE)				
4.3.1	8.3.3	<u>Treatment of subgrade</u> a) 150mm in-situ subgrade preparation and compaction of materials to				
	8.3.3a.2	i) Minimum of 93% modified AASHTO maximum density including ripping, watering, shaping and compaction of in-situ materials in the cell as shown on drawings.	m ²	4,962		
4.4	SANS 1200 DK	GABIONS AND PITCHING				
	8.2.4	Geotextile (or other geosynthetics) on base and slope				
4.4.1	SANS 10409	Supply and install 2.0mm H.D.P.E smooth geomembrane GRI-GM13 liner.	m ²	4,962		
4.4.2	8.2.4 SABS 1200DK	Supply and install 3.7kg/m ² Geosynthetic Clay Liner in accordance with GRI-GCL 3 specifications	m ²	4,962		
4.4.3	SANS 10409	Supply and install Cusped Drain with a minimum core height of 7mm under load	m ²	4,962		
4.4.5	SANS 10409	E.O ordinary 2mm H.D.P.E geomembrane for 250mm (Ø) diameter boot seals.	no	2		
4.4.8		E.O ordinary 2mm H.D.P.E geomembrane for gas vents at 10m centres, as per drawing detail.	no	8		
TOTAL CARRIED FORWARD						

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
4.4.9	8.2.4 SABS1200DK	Supply and installation of non woven, Needle punched geotextile, Nominal mass 1000g/m2 - as liner protection below Concrete filled woven tape lattice layer, Riser pipes & drainage sumps.	m ²	4,962		
4.4.10	8.2.4 SABS1200DK	Supply and installation 100mm thick layer of 38mm single sized clean ballast stone on top of Protection Geotextile as ballast	m ²	4,962		
4.5	SANS 1200 LB	BEDDING (PIPES)				
4.5.1	8.2.2	<u>Supply only of bedding by importation:</u>				
	8.2.2.3	From commercial sources:				
		a) Import and place 19mm washed stone aggregate for leachate leak				
		i) Sub-soil finger drains	m ³	22		
		b) Import and place 38mm washed stone aggregate				
		i) Sub-soil collection Sump.	m ³	8		
		ii) Leakage Detection Sump.	m ³	8		
		c) Import and place washed coarse River Sand backfill				
		i) Sub-soil finger drains	m ³	6		
4.6	SANS 1200 L	PIPE WORK:				
	8.2.1	<u>Supply lay and bed complete with couplings:</u>				
4.6.1		Supply and installation of 250mm diameter (Φ) PE 100 PN 12.5 riser pipes for leakage detection incl all fittings details to leak detection monitoring manhole as shown on drawings.	m	18		
4.6.2		Supply and installation of 250mm diameter (Φ) PE 100 PN 12.5 HDPE riser pipe for sub-soil detection incl all fittings details to leak detection monitoring manhole as shown on drawings.	m	18		
4.6.3		Supply and install 110mm diameter (Φ) double walled corrugated HDPE pipe with slotted perforations and ring stiffness > 450 kPa - in the leachate collection layer.incl all couplings, bends etc.	m	135		
4.7	SANS 1200 LE	STORMWATER DRAINAGE				
4.7.1	8.2.6	Pre-fabricated HDPE manholes 1200mm diameter (Φ), wall thickness of 20mm including base end cap, extrude welded, complete with HDPE step irons and removable cover and frame for sub-soil collection and leachate leak detection, depths: 0m to 1.5m	No.	1		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 5 : STORMWATER DRAINS

ITEM NO.	REF	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5.1	SANS 1200 C	CLEARING				
5.1.1	8.2.1	<u>Clear and Grub</u> Clear Site incl. remove trees up to 1m girth on site to approved approved temporary stockpile on Site	m ²	11,244		
5.2	SANS 1200 D	EARTHWORKS				
5.2.1	8.3.1.2	Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m ²	11,244		
5.2.2	8.3.3	<u>Restricted Excavation:</u>				
	8.3.3a)	Excavate in all materials, trim, shape and compact to 90% Mod AASHTO and place surplus in berm adjacent to drain for: n.e 1m deep				
		i) Contaminated stormwater concrete v-drains	m ³	4,818		
		ii) Pipe trench	m ³	15		
5.4	SANS 1200 LB	BEDDING (PIPES)				
5.4.1	8.2.1	<u>Provision of Bedding from trench excavation</u> a) Selected granular material.				
		i) Pipe trenches	m ³	4		
5.5	SANS 1200 LE	STORMWATER DRAINAGE:				
5.5.1	8.2.1	<u>Supply and lay concrete pipe culvert on class B bedding</u> (Φ)900mm diameter 100D concrete culvert pipe				
		i) crossing at entrance	m	15		
5.5.3	8.2.7	<u>Pre-cast headwalls and wingwalls incl apron.</u>				
		i) (Φ)900mm diameter single barrel	No	1		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 6 : ROADS

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6.1	SANS 1200 D	Earthworks				
6.1.1	8.3.2	<u>Restricted Excavation</u> a) Excavate in all materials where applicable for trenches, backfill and compact to 93% MoD AASHTO and dispose of surplus material depth : (0.0m -1.0m) i) Electrical / Telkom sleeve trenches.	m³	30		
6.2	SANS 1200 DM	CLEARING				
6.2.1	8.3.1	Clear Site Clear Site incl. remove trees up to 1m girth on site to approved approved temporary stockpile on Site	m²	18645		
6.2.2	8.3.2	<u>Preparation of Site</u> a) Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m³	2797		
6.2.3	8.3.3	<u>Treatment of subgrade</u> 150mm in-situ subgrade preparation and compaction of materials to Minimum of 90% modified AASHTO maximum density including ripping, watering, shaping and compaction of in-situ materials.	m³	18645		
6.2.4	8.3.4	<u>Cut to Fill</u> a) Compact to 90% Mod AASHTO mdd.	m³	4661		
6.2.5	8.3.4	<u>Borrow to fill</u> a) Compact to 90% Mod AASHTO mdd.	m³	rate only		
6.2.6	8.3.5	<u>Selected layer compacted to 95% Mod AASHTO</u> Import from commercial source and place fill in 150mm layers G7 quality material compacted to 95% modified AASHTO maximum density	m³	rate only		
6.2.7	8.3.7	<u>Cut to stockpile</u> a) From soft excavation.	m³	0		
6.3	SANS1200 MF	BASE				
6.3.1	8.3.3	<u>Construct base / gravel wearing course with material Imported from commercial sources or borrow areas.</u> Import 200mm thick layer G7 quality material place and compact to 95% modified AASHTO maximum density for gravel wearing course. Import 150mm thick layer G5 quality material place and compact to 96% modified AASHTO maximum density for gravel wearing course.	m³	3729		
6.4	SANS1200 M.J	SEGMENTED PAVING				
6.4.1	8.2.2	<u>Laying of interlocking paving blocks complete with bedding sand</u> Supply and laying of 80mm heavy duty baked clay interlocking paving G-blocks type SA to suit existing - complete with 20mm bedding sand (Truck sidings)	m²	10845		
6.5	SANS1200 MK	KERBS AND CHANNELLING				
6.5.1	8.2.1 a)	i) Supply and install pre-cast concrete barrier kerb with laid straight (Fig. 3)	m	3615		
	8.2.1 a)	ii) Ditto but laid to a radius	m	0		
	8.2.1 a)	iii) Supply and install concrete Fig. 13 edge beam	m	36		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
6.6	SANS1200 MM	ANCILLARY ROADWORKS (LABOUR INTENSIVE)				
6.6.1	8.3.6	<u>Supply and erect of statutory signs, street names (supplied and erected complete)</u>				
		R1 (stop)	No.	2		
6.6.2	6.4.1	<u>Non-Reflective Paint applied at nominal rate of 0.42l/m² as scheduled:</u>				
		<u>White paint:</u>				
		i) Parking Bays	m	115		
		ii) Stop	No.	1		
6.7	SANS 1200 LC	TELKOM AND ELECTRICAL SERVICE DUCTS				
6.7.1		CABLE SLEEVES				
	8.2.5	<u>Supply, lay, bed and prove duct</u>				
		Ø160mm HDPE Kabelflex road crossing sleeve or similar approved.	m	24		
6.7.2	8.2.7	DRAWPITS/MANHOLES				
		600 x 600 Telkom manhole n.e. 0.6m deep	No.	2		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 7 : FENCING

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7.1	SANS 1200 C	CLEARING				
7.1.1	8.2.1	Clear and Grub Clear Site incl. remove trees up to 1m girth on site to approved approved temporary stockpile on Site	m ²	3,954		
7.1.2	8.2.5	Remove and dispose of existing fences	km	Rate only		
7.2	PAD	Fencing				
7.2.2		Supply and install 2400mm high HDG Razor diamond mesh fence 300X150mm incl. flat wrap razor coil fixed to top with 100mmDia HDG corner and strain post with 50mm stays, planted 600deep in 20Mpa concrete, 'Y' dropper standard planted n.e 4m apart, 4 x HDG strain wires etc complete.	m	1,977		
		Supply and install 1800mm high HDG diamond mesh fence with 100mmDia HDG corner and strain post with 50mm stays, planted 600deep in 20Mpa concrete, 'Y' dropper standard planted n.e 4m apart, 4 x HDG strain wires etc complete.	m	700		
7.3		ACCESS GATES				
7.3.1	PAD1.2.2	Supply and install new non-motorized sliding gates as per drawing, including sliding rail concreted in-situ, stand posts and guide posts complete. To suit Fence a) Heavy duty 12m wide	Sum	1		
		Supply and install new double leaf HDG access gates to suit 1800mm HDG diamond mesh fence. a) 4.5m wide HDG double leaf gates	No	2		
TOTAL CARRIED TO SUMMARY						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 8 : OFFICES

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8.1		Aministration Building incl. office, boardroom, Kitchen, ablutions and storeroom. (Provisional Sum)	m2	100		
8.2		6000x3000 weigh bridge office.	m2	18		
8.3		3000x3000 security office	m2	9		
CARRIED FORWARD						

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 9 : WORKSHOP & MRF

ITEM No.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9.1		24000x12000 Steel portal frame workshop including concrete floor Chromodeck roof and side cladding and apron slab complete	allow	1	R 1,200,000.00	R 1,200,000.00
9.2		24000x12000 Steel portal frame materials recycling facility including concrete floor Chromodeck roof and side cladding and apron slab complete	allow	1	R 1,200,000.00	R 1,200,000.00
CARRIED FORWARD						R 2,400,000.00

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 10 : SERVICES

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10.1	PAF1.2.1	ELECTRICIAL SUPPLY				
10.1.1		Allow for wiring of solar electricity connection for three phase electrical supply to Offices and workshop incl supply cables, termination and testing etc.	Prov Sum	1	R 350,000.00	R 350,000.00
10.1.2		Supply and install solar equipment including panels, panel mounting, 8Kva inverter-controller and 2 x 10Kw lithium Iron batteries.	Prov Sum	1	R 250,000.00	R 250,000.00
10.2	PAF1.2.1	SEWER RETICULATION				
10.2.1		Allow for sewer reticulation, connected to Offices including pipework connections and testing to Septic tank and French drain system etc.	Prov Sum	1	R 100,000.00	R 100,000.00
10.3	PAF1.2.1	WATER RETICULATION				
10.3.1		Allow for drilling of potable water BH incl reticulation including all pipework to Offices, MRF and Washbay and header tanks	Prov Sum	1	R 300,000.00	R 300,000.00
TOTAL CARRIED TO SUMMARY						R 1,000,000.00

MOLEMOLE CLASS B LANDFILL

CONTRACT NUMBER: MLM/TECH/020/2024/25

SECTION 11 : MISCELLANEOUS

ITEM NO.	PAYMENT REFER.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11.1	PAF1.2.1	SIGNAGE				
11.1.1		Supply and installation of signage on perimeter fence (no entry, no swimming), public information boards, Health-and Safety	Prov Sum	1	R 30,000.00	R 30,000.00
11.2	PAF1.2.1	Health and Safety Equipment				
11.2.1		Supply and mount floatation rings at dams	No	2		
11.3		WASH BAY				
11.3.1		Supply and install modular washbay	Prov Sum	1	R 180,000.00	R 180,000.00
11.4		WEATHER STATION				
11.4.1		Supply and Install weather station unit, as per specification	Prov Sum	1	R 30,000.00	R 30,000.00
11.5		BOREHOLES				
11.5.1		Install monitoring boreholes 30m steel sleeved for fist 6m, deep with lockable cap, keys and lock	No.	3		
11.6		PUMP				
11.6.1		Portable or Fixed pump for leachate dam truck filling / filling water cart from C.W. dam	No.	1		
11.7		WEIGHBRIDGES				
11.7.1		Supply and install 24000mm long multiple axel weighbridges including civil works, safety barriers, load cells, computer and software complete.	Allow	2	R 750,000.00	R 1,500,000.00
11.8		PNEUMATIC PUMPING SYSTEM				
11.8.1		Pneumatic leachate pumping system including 250l heavy duty compressor, HDPE pipework reticultaion to leachate pumps and three pneumatic pumps.	Allow	1	R 200,000.00	R 200,000.00
TOTAL CARRIED TO SUMMARY						

CONTRACT NUMBER: MLM/TECH/020/2024/25

MOLEMOLE CLASS B LANDFILL FACILITY

SUMMARY

Section 1:	Preliminary & General (Allow 20% of construction value)	R
Section 2A:	Cell 1	R
Section 4:	Leachate Containment	R
Section 5:	Stormwater Drains	R
Section 6:	Roads	R
Section 7:	Fencing	R
Section 8:	Offices	R
Section 9:	Workshop/MRF	R
Section 10:	Services	R
Section 11:	Miscellaneous	R

SUB TOTAL: R

Contingencies (5% Of Sub Total) R

SUB TOTAL: R

Value Added Tax (15%) R

TOTAL AMOUNT: R