

## MOLEMOLE MUNICIPALITY

CONTRACT NO.: TECH-004-2020/2021

SURFACING OF ROAD LINKING KGWADI PRIMARY SCHOOL AND BOTLOKWA PRIMARY SCHOOL PHASE 2

SECTION 1200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1200</b>	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
B12.01	(i) Payment of community liason officer	-	Prov	Sum	R 30,000.00
	(ii) Handling costs and profit in respect of B12.01(i) above	%	R 30,000.00		
	(iii) Payment for PSC Sitting	-	Prov	Sum	R 6,000.00
	Handling costs and profit in respect of B12.01(i) above	%	R 6,000.00		
B12.02	Structured Training (as specified in part D of the project specification)				
	(a) Generic Skills	-	Prov	Sum	R 35,000.00
	(b) Entrepreneural Skills	-	Prov	Sum	R 35,000.00
	(c) Handling costs and profit in respect of sub-items (a) and (b) above	%	R 70,000.00		
	(d) Provision of training venue (only if required)	-	Lump	Sum	
PS12.05	Protection, removal, relocation and replacement of Utility services.				
	(a) Utility services				
	(i) Protection, removal, relocation and replacement of utility services.		PC Sum	PC Sum	350,000.00
	(ii) Handling costs and profit in respect of sub-items (a) (i) above	%	R 350,000.00		
B12/C1.1	Contractor's initial obligation in respect of the OHS Act and Construction Regulations	L/Sum	1.00		
B12/C1.2	Contractor's Time related Obligations in respect of the OHS Act and Construction Regulations	Month	6.00		
B12/C1.3	Submission of Health and Safety File	L/Sum	1.00		
B12/C1.4	Compesation to Land Owners				
	(a) Payment to affected land owners or to Subcontractors	L/Sum	R 1.00	30,000.00	R 30,000.00
	Handling cost and profit in respect of sub item (i) above	%	R 30,000.00		
B12/C1.5	Provisional Sum for payment of specialised services a		Prov Sum	Prov Sum	300,000.00
	Handling cost and profit in respect of sub item (i) above	%	R 300,000.00		
<b>1200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 1300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1300	<b><u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u></b>				
1301	The Contractor's general obligations:				
	(a) Fixed obligations	-	lump	sum	
	(b) Value-related obligations	-	lump	sum	
	(c) Time-related obligations	month	6		
1300	<b>TOTAL CARRIED TO SUMMARY</b>				

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				SECTION 1400	
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1400</b>	<b><u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u></b>				
14.01	Office and laboratory accommodation:				
	(a) Offices (interior floor space only)	m <sup>2</sup>	50		
	(e) Ablution units	m <sup>2</sup>	20		
14.02	Office and laboratory furniture:				
	(a) Chairs	number	20		
	(d) Desks, complete with drawers and locks	number	2		
	(f) Conference tables	number	1		
14.03	Office and laboratory fittings, installations and equipment:				
	(a) Items measured by number:				
	(i) 220/250 volt power points	number	4		
	(iii) Double 80 watt fluorescent-light fittings complete with ballast and tubes	number	2		
	(v) Single incandescent-light fittings complete with 100 watt globes	number	1		
	(vi) Wash-hand basins complete with taps and drains	number	1		
	(x) Fire extinguishers, 9,0 kg all purpose dry powder type, complete, mounted on wall with brackets	number	2		
	(xi) Air-conditioning units with, 2,2 kW minimum capacity, mounted and with own power connection	number	2		
	(xiv) General-purpose steel cupboards with shelves	number	2		
	(xv) Steel filing cabinets with drawers	number	2		
<b>1400</b>	<b>TOTAL CARRIED FORWARD</b>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>Brought forward</b>				
14.04	Car-ports	number	4		
14.07	Rented, hotel and other accommodation:				
	(a) Provisional Sum for providing rented housing, hotel or other accommodation as described in Subsubclause 1403(c)(ii)	-	Prov	Sum	R 20,000.00
	(b) Handling costs and profit in respect of subitem 14.07(a)	%	R 20,000.00		
14.10	Provision of photostat facilities	month	6		
B14.11	Telecommunications System				
	(a) Supply (1)Cellular Phone	-	Lump	Sum	R 15,500.00
	(c) Costs of calls by Engineer	-	PC	Sum	R 6,000.00
	(d) Handling costs and profit in respect of subsubitem 14.11(a), (c) above	%	R 21,500.00		
	(e) Provision of Laptop for the use of Engineer.	-	Lump	Sum	R 25,000.00
	Handling costs and profit in respect of subsubitem 14.11(a), (c) above	%	R 25,000.00		
<b>1400</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

C2.2.5

C2.2.4

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**SECTION 1500**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1500	<b>ACCOMMODATION OF TRAFFIC</b>				
15.01	Accommodating traffic and maintaining temporary deviations	km	4.00		
15.02	Earthworks for temporary deviations: (a) Shaping of temporary deviations (b) Cut and borrow to fill (c) Cut to spoil	km km m <sup>3</sup> m <sup>3</sup>	3.00 50.00 50.00		
B15.03	Temporary traffic-control facilities: (a) Flagmen (b) Portable STOP and GO-RY signs (e) Road signs, R- and TR-series, (size indicated) (f) Road signs, TW-series, (size indicated) (g) Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades) (h) Delineators (DTG50J): (i) Single (ii) Mounted back to back (j) Traffic cones 600mm (l) Movable barriers (type indicated) (n) Safety jackets and hats	man-day number number number m <sup>2</sup> number number number No No	600.00 4.00 8.00 5.00 10.00 15.00 7.00 7.00 2.00 2.00		
15.04	Relocation of traffic-control facilities	Lump	Sum		
15.05	Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations: (a) Temporary deviations	m <sup>3</sup>	80.00		
15.06	Watering of temporary deviations	kilolitre	1,800.00		
<b>1500</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 1500

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>Brought forward</b>				
15.07	Blading by road grader of:				
	(a) Temporary deviations	km-pass	4.0		
	(b) Existing roads used as temporary deviations	km-pass	4.0		
15.08	Repairs, alterations and/or additions to existing roads used as temporary deviations	-	Prov	Sum	Rate Only
B15.10	Accommodating traffic where the road is constructed in half widths.	km	1.4		
<b>1500</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 1600

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1600	<b>OVERHAUL</b>				
16.02	Overhaul on material in excess of 1.0 km (ordinary overhaul)	m <sup>3</sup> -km	20,725.00		
1600	TOTAL CARRIED TO SUMMARY				

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SECTION 1700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	<b><u>CLEARING AND GRUBBING</u></b>				
17.01	Clearing and grubbing	ha	2.0		
17.02	Removal and grubbing of large trees and tree stumps				
	(a) Girth exceeding 1 m up to and including 2m	No	2		
1700	TOTAL CARRIED TO SUMMARY				



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SECTION 1800

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1800</b>	<b><u>DAYWORKS</u></b>				
B18.01	Labourers:				
	(i) Unskilled	h	-		Rate Only
	(ii) Semi-skilled	h	-		Rate Only
	(iii) Skilled	h	-		Rate Only
B18.02	Foreman	h	-		Rate Only
B18.03	Tipper trucks:				
	(i) 3 - 5 ton	h	-		Rate Only
	(ii) 5.1 - 10 ton	h	-		Rate Only
B18.04	Loader (0,5m <sup>3</sup> )	h	-		Rate Only
B18.05	Grader (CAT 140G or similar)	h	-		Rate Only
B18.06	LDV	km	-		Rate Only
B18.07	Compaction rollers:				
	(i) Vibratory roller	h	-		Rate Only
	(ii) Tamping roller	h	-		Rate Only
	(iii) Grid roller	h	-		Rate Only
B18.08	Hand controlled compactors				
	(i) Pedestrian roller (Bomag BW90)	h	-		Rate Only
	(ii) Vibratory plate	h	-		Rate Only
	(iii) Rammers	h	-		Rate Only
B18.09	Water truck (min. 10000litre)	h	-		Rate Only
B18.10	Dozer (D7 or similar)	h	-		Rate Only
<b>1800</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 2300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>2300</b>	<b><u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u></b>				
23.01	Concrete kerbing:				
	(a)(i) Prefabricated mountable kerb, SABS 927 fig 8c, as shown on the Drawings	m	1,600.00		
	(ii) Prefabricated mountable kerb, SABS 927 fig 7, as shown on the Drawings	m	20.0		
	(iii) Prefabricated mountable kerb, SABS 927 fig 3, as shown on the Drawings	m	20.0		
	(ii) Edge beam (200mm deep x 200 wide mm)	m <sup>3</sup>	10.0		
23.04	Cast in situ concrete chutes (measured by components):				
	(a) Concrete				
	(1) Class 20/19	m <sup>3</sup>	10.0		
	(b) Formwork				
	(1) F1 Surface finish	m <sup>2</sup>	1		
	(2) F2 Surface finish	m <sup>2</sup>	1		
23.07	Trimming of excavations for concrete-lined open drains:				
	(a) In soft material	m <sup>2</sup>	10		
	(b) In hard material	m <sup>2</sup>	50		
23.08	Concrete lining for open drains:				
	(a) Cast insitu concrete lining ( V and trapezoidal drain) including formwork.	m <sup>3</sup>	184		
	(b) Class U2 surface finish to cast in situ concrete (trapezoidal drain)	m <sup>2</sup>	1,600		
23.10	Sealed joints in concrete linings of open drains (Polysulphide sealants)	m	80.00		
23.11	Concrete screed or backfill below chutes				
	(b) Class 20/19	m <sup>3</sup>	10		
23.12	Steel reinforcement				
	(a) Welded steel fabric ref 195	kg	3120.00		
<b>2300</b>	<b>TOTAL CARRIED FORWARD TO SUMMARY</b>				

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SECTION 3100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3100	<b><u>BORROW MATERIALS</u></b>				
31.01	Excess overburden	m <sup>3</sup>	1,000		
31.03	Finishing-off borrow areas in:				
	(b) Intermediate material	ha	1.0		
	(c) Soft material	ha	1.0		
31.04	Rehabilitation of Borrow Pit	Prov Sum	1	R 60,000.00	R 60,000.00
	Handling cost and profit in respect of sub item (31.04) above	%	R 60,000.00		
3100	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 3200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3200	<u>SELECTION, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS</u>				
32.06	Stockpiling of material	m <sup>3</sup>	1,756		
3200	TOTAL CARRIED TO SUMMARY				

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SECTION 3300

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3300</b>	<b><u>MASS EARTHWORKS</u></b>				
33.01	Cut and borrow to fill, including free-haul up to 0,5 km:				
	(a) Material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m <sup>3</sup>	7,049.7		
	(c) Rock fill (as specified in subclause 3209c)	m <sup>3</sup>	400		
33.03	Extra over item 33.01 for excavating and breaking down material in:				
	(a) Intermediate excavation	m <sup>3</sup>	450		
	(b) Hard rock excavation	m <sup>3</sup>	2,820	350.00	R 986,955.66
33.04	Cut to spoil, including free-haul up to 0,5 km. Material obtained from:				
	(a) Soft excavation	m <sup>3</sup>	7,469		
33.07	Removal of unsuitable material (including free-haul of 0,5 km):				
	(b) In layer thicknesses exceeding 200 mm:				
	(i) Stable material	m <sup>3</sup>	525		
	(ii) Unstable material	m <sup>3</sup>	630		
33.10	Roadbed preparation and the compaction of material:				
	(a) Compaction to 90% of modified AASHTO density	m <sup>3</sup>	2,160		
33.13	Finishing-off cut and fill slopes				
	(a) Cut slopes	m <sup>2</sup>	1,200		
	(b) Fill slopes	m <sup>2</sup>	1,200		
B33.20	Reshaping the road formation with material obtained from the road reserve and compacted to 90% of modified AASTHO density	m <sup>3</sup>	Rate Only		Rate Only
<b>3300</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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**SECTION 3400**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<p><b>3400</b></p> <p>34.01</p>	<p><b><u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u></b></p> <p>Pavement layers constructed from gravel taken from cut or borrow including free-haul up to 1,0 km:</p> <p>(a) Gravel Selected layer compacted to:</p> <p style="padding-left: 20px;">(i) 93% of modified AASHTO density for a compacted layer thickness of 150 mm</p> <p>(c) Gravel subbase compacted to:</p> <p style="padding-left: 20px;">(ii) 95% of modified AASHTO density for a compacted layer thickness of 150 mm</p> <p>(d) Base Course</p> <p style="padding-left: 20px;">(iii) 97% modified AASHTO in 150mm</p>	<p>m<sup>3</sup></p> <p>m<sup>3</sup></p> <p>m<sup>3</sup></p>	<p>1,980</p> <p>1,856</p> <p>1,733</p>		
<p><b>3400</b></p>	<p><b>TOTAL CARRIED TO SUMMARY</b></p>				

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**SECTION 3500**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3500	<b><u>STABILIZATION</u></b>				
35.01	<b>Chemical stabilization extra over unstabilized compacted layers:</b>				
	(c) Gravel base, 150 mm thick*	m <sup>3</sup>	1,733		
35.02	<b>Chemical stabilizing agent:</b>				
	(a) Ordinary Portland cement	t	160		
35.04	<b>Provision and application of water for curing</b>	kl	250		
3500	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 4100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4100	<b><u>PRIME COAT</u></b>				
41.01	<b>Prime coat:</b>				
	(a) Quick drying MSP tar prime	litre	Rate Only		Rate Only
	(b) MC-30 cut-back bitumen	litre	7425.00		
41.02	<b>Aggregate for blinding</b>	m <sup>2</sup>	Rate Only		Rate Only
4100	<b>TOTAL CARRIED TO SUMMARY</b>				



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SECTION 4200

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>4200</b>	<b>ASPHALT BASE AND SURFACING</b>				
42.02	Asphalt surfacing (a) Continuously medium graded (25mm thick).	m <sup>2</sup>	10,200		
42.04	Tack coat of 30% stable-graded emulsion.	l	5,610		
PS42.08	100mm cores in asphalt paving	No.	8		
<b>4200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 5100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100  LI 51.01	<p><b><u>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</u></b></p> <p>Stone pitching:</p> <p>(b) Grouted stone pitching 150 mm thickness</p>	m <sup>2</sup>	100		
5100	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 5600

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>5600</b>	<b><u>ROAD SIGNS</u></b>				
56.01	Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class I retro-reflective material, where the sign board is constructed from:  (a) Aluminium sheet (2,0 mm thick):  (i) Area not exceeding 2 m <sup>2</sup>	m <sup>2</sup>	20		
56.02	Extra over item 56.01 for using:  (a) Background of retro-reflective material:  (i) Class I	m <sup>2</sup>	20		
56.03	Road sign supports (overhead road sign structures excluded):  (b) Timber, 150 mm dia treated with creosote	m	40		
LI 56.05	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m <sup>3</sup>	12		
LI56.06	Extra over item 56.05 for cement-treated soil backfill	m <sup>3</sup>	6		
<b>5600</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 5700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>5700</b>	<b>ROAD MARKINGS</b>				
57.02	Retro-reflective road-marking paint:				
	(a) White line (100mm wide broken or unbroken)	km	1.50		
	(b) Yellow line (100mm wide broken or unbroken)	km	0.50		
	(d) White lettering and symbols	m <sup>2</sup>	30.0		
<b>5700</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

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SECTION 5900

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5900	<p><b><u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u></b></p> <p>59.01 Finishing the road and road reserve:</p> <p>(b) Single-carriageway road</p>	km	2.80		
5900	<b>TOTAL CARRIED TO SUMMARY</b>				

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<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>8100</b>	<b><u>TESTING MATERIALS AND WORKMANSHIP</u></b>				
81.02	Other special tests requested by the Engineer:				
	(a) Cost of testing	-	PC	Sum	R 150,000.00
	(b) Charge on Prime Cost Sum	%	150,000		
<b>8100</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SUMMARY OF SCHEDULE OF QUANTITIES**

1200	GENERAL REQUIREMENTS AND PROVISIONS.....	R	_____
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS.....	R	_____
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL.....	R	_____
1500	ACCOMMODATION OF TRAFFIC.....	R	_____
1600	OVERHAUL.....	R	_____
1700	CLEARING AND GRUBBING.....	R	_____
1800	DAYWORKS.....	R	<b>Rates Only</b>
2300	CONCRETE KERBING, CONCRETE CHANNELING, CHUTES AND DOWNPIPES AND CONCRETE LINING FOR OPEN DRAINS.....	R	_____
3100	BORROW MATERIALS.....	R	_____
3200	SELECTION, STOCKPILING AND BREAKING-DOWN THE MATERIAL FROM BORROW PITS, CUTTINGS AND EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS.....	R	_____
3300	MASS EARTHWORKS.....	R	_____
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL.....	R	_____
3500	STABILIZATION.....	R	_____
4100	PRIME COAT.....	R	_____
4200	ASPHALT LAYER SURFACING.....	R	_____
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION.....	R	_____
5700	ROAD MARKINGS.....	R	_____
5600	ROAD SIGNS.....	R	_____
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS.....	R	_____
8100	TESTING MATERIAL AND WORKMANSHIP TREATING OLD ROADS .....	R	_____

**TOTAL R** \_\_\_\_\_

**CALCULATION OF TENDER SUM**

SUMMARY OF SCHEDULE OF QUANTITIES TOTAL..... R \_\_\_\_\_

ADD CONTINGENCIES  
The sum provided here is under the sole control of the  
Engineer and may be deducted in whole or in part. (The Tenderer  
must add 5% of the total of schedule of quantities) ..... R \_\_\_\_\_

**SUBTOTAL R** \_\_\_\_\_

ADD VALUE-ADDED TAX (VAT)  
The tenderer shall add 15% of subtotal for VAT ..... R \_\_\_\_\_

**TOTAL CARRIED TO FORM OF OFFER** R \_\_\_\_\_

SIGNED ON BEHALF OF TENDERER : .....