

MAQUASSI HILLS LOCAL MUNICIPALITY
UPGRADING OF MOKOME AND ATSHATSHU STREET FROM GRAVEL ROAD TO BLOCK PAVING IN
LEBALENG
TENDER NO: MHLM/MIG/01/2023/24

Schedule 1
Preliminary & General

SCHEDULE 1 : PRELIMINARY & GENERAL

Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
1.	SANS 1200A	<u>PRELIMINARY & GENERAL</u>					
1.1	8.3	<u>FIXED-CHARGE ITEMS</u>					
1.1.1	8.3.1	Contractual Requirements	Sum		1		
1.1.2	8.3.2	<u>Establish Facilities on Site</u>					
	8.3.2.1	i) <u>Facilities for Engineer</u>					
	PS7.2	a) Office Equipment for Engineer as and when required	Prov Sum		1	175 000,00	175 000,00
	PSAB1	b) Nameboards	no.		1		
	8.3.2.2	ii) <u>Facilities for Contractor</u>					
	PS6	a) Offices and storage sheds	Sum		1		
		b) Workshops	Sum		1		
		c) Laboratories	Sum		1		
		d) Living accommodation	Sum		1		
		e) Ablution and latrine facilities	Sum		1		
		f) Tools and equipment	Sum		1		
		g) Water supplies, electric power and communications	Sum		1		
		h) Dealing with water (Subclause 5.5)	Sum		1		
		i) Access (Subclause 5.8)	Sum		1		
		j) Plant	Sum		1		
1.1.3	8.3.3	Other fixed-charge obligations	Sum		1		
1.1.4	8.3.4	Remove Contractor's site establishment on completion	Sum		1		
1.3	8.4	<u>TIME-RELATED ITEMS</u>					
1.3.1	8.4.1	Contractual requirements	Sum		1		
1.3.2	8.4.2	<u>Operate and maintain facilities on the site:</u>					
	8.4.2.1	i) <u>Facilities for Engineer</u>					
		a) Operate and maintain facilities on site for the Engineer and the Contractor	Sum		1		
Carried Forward							

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
Brought Forward							
	8.4.2.2	<u>Facilities for Contractor</u>					
		a) Offices and storage sheds	Sum		1		
		b) Workshops	Sum		1		
		c) Laboratories	Sum		1		
		d) Living accommodation	Sum		1		
		e) Ablution and latrine facilities	Sum		1		
		f) Tools and equipment	Sum		1		
		g) Water supplies, electric power and communications	Sum		1		
		h) Dealing with water (Subclause 5.5)	Sum		1		
		i) Access (Subclause 5.8)	Sum		1		
		j) Plant	Sum		1		
1.3.3	8.4.3	Supervision for duration of the construction	Sum		1		
1.3.4	8.4.4	Company and head office overhead costs	Sum		1		
1.3.5	PSA8.4	Opening up and closing of Borrow pits	Sum		1		
1.3.6		Pipelines Pressure Testing	Sum		1		
1.3.7	8.4.5	Other time related obligations	Sum		1		
		a) Community Liaison Officer (CLO) Salary	Month		3	6 500,00	19 500
		b) Community involvement, PSC payment	Sum		1	30 000,00	30 000,00
		c) Charges and profit on item 1.3.7 (a) and (b)	%				
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C.2.2.2

MAQUASSI HILLS LOCAL MUNICIPALITY
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Schedule 1
Preliminary & General

Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
Brought Forward							
1.4	PAP10	<u>HEALTH AND SAFETY</u>					
1.4.1	10.2.2(a)	Implementation and maintenance of health and safety plan	Sum		1		
1.4.2	10.2.2(b)	Implementation and maintenance of training	PC Sum		1	12 000,00	12 000,00
1.4.3	10.2.2(c)	Maintenance of personal protective clothing and equipment	Sum		1		
1.4.4	10.2.2.(d)	Maintenance of fences, signs and barricades	Sum		1		
1.4.5	10.2.2(e)	Implementation and maintenance of safety administration	Sum		1		
1.4.6	10.2.2(f)	Other health and safety time-related obligations	Sum		1		
1.5	PSA8	<u>SUMS STATED PROVISIONALLY BY THE ENGINEER</u> <u>Provisional Sums</u>					
1.5.1		Testing					
1.5.1.1	PSA8.2	Layerworks, bedding, blanket and backfilling	Prov Sum		1	15 000,00	15 000,00
1.5.1.2		Health and Safety Inspection (To be done by a Nominated Sub Contractor)	Prov Sum		1	15 000,00	15 000,00
		Charges and profit on item 1.5.1.2 and 1.5.1.2	%		10%	30 000,00	3 000,00
1.5.1.3		Wages and salaries of local and other labourers employed by the Contractor and Emerging Contractor i.r.o. training periods	Prov Sum		1		
1.5.1.4	PSA8.3	Opening and Closing of Municipal Borrow Pit	Sum		1	-	
TOTAL SCHEDULE 1 CARRIED FORWARD TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.3

MAQUASSI HILLS LOCAL MUNICIPALITY
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Schedule 2
Day Works

SCHEDULE 2 : DAY WORKS

Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
2	SANS 1200A	<u>DAY WORKS</u>					
2,1	8,7	LABOUR					
2.1.1		a) Unskilled Labourers	hrs		1		
2.1.2		b) Semi Skilled Labourers	hrs		1		
2.1.3		c) Skilled Labourers	hrs		1		
2.1.4		d) Carpenter	hrs		1		
2.1.5		e) Clerk	hrs		1		
2.1.6		f) Artisans	hrs		1		
2.1.7		g) Foreman	hrs		1		
2.1.8		h) Steel fixer	hrs		1		
2.1.9		i) Bricklayer or Plasterer	hrs		1		
2.1.10		j) Welder	hrs		1		
2,2		PLANT					
		Tenderers to insert the hire rate at which each item will be charged, which is to cover all relevant costs of plant hire, including operating crew, bringing to site and removal					
2.2.1		Bulldozer (D6 or similar equivalent):					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.2		Grader (120G or similar equivalent)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.4

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Schedule 2
Day Works

SCHEDULE 2 : DAY WORKS

Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
Brought Forward							
2.2.3		TLB					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.4		Trucks (6m³ tipper)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.5		Soil compactors (D72Y or similar equivalent)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.6		Concrete mixer (250 litre)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.7		Concrete vibrators (Drive unit plus accessories)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.8		Excavators					
		a) Working	hrs		1		
		b) Standing	hrs		1		
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.5

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Schedule 2
Day Works

SCHEDULE 2 : DAY WORKS

Item No.	Payment Ref.	Description	Unit	LIC	Qty	Rate (R)	Amount (R)
Brought Forward							
2.2.9		Water tanker (10 000 l)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.10		LDV					
		a) Working	hrs		1		
		b) Standing	hrs		1		
2.2.11		Dumper (1.4m ³)					
		a) Working	hrs		1		
		b) Standing	hrs		1		
TOTAL SCHEDULE 2 CARRIED FORWARD TO SUMMARY							

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Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

C2.2.6

MAQUASSI HILLS LOCAL MUNICIPALITY

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Schedule 3

SCHEDULE 3 : BULK EARTHWORKS & SELECTED LAYERS

Bulk Earthworks & Selected Layers

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
3,1	SANS 1200ME 8.3.1	<u>BULK EARTHWORKS & SELECTED LAYERS</u> <u>SITE CLEARANCE</u>					
3.1.1	C 8.2.1 8.3.1	Clear vegetation, rubble and trees up to 1 m of girth and other obstructions pointed out by the Engineer's representative in the site book to a width of 5 m on either side of road center line	m ²		4000		
3.1.2	DM 8.3.2(a)	Remove topsoil to the required depths as stated by the Engineer's representative in the site instruction book (minimum 100 mm thick) and stockpile along road for later use on road fill batters	m ³		400		
3,2		<u>BULK EXCAVATIONS</u>					
3.2.1	DM 8.3.11	<u>Cut to stockpile</u> material from road prism including from side channels if necessary, if requested by the Engineer or his representative in the site instruction book stating positions, widths and depths of materials to be <u>stockpiled</u> , in all classes of materials, rate shall cover the cost of excavation, loading, transporting, offloading and shaping at a position as shall be pointed out by the Engineer's representative in the site instruction book Freehaul of 10.0km	m ³		1200		
3.2.2	8.3.7	<u>Cut to spoil</u> material from road prism including from side channels, if requested the Engineer or his representative in the site instruction book, stating positions, widths and depths of materials to <u>be spoiled</u> , in all classes of materials , rate shall cover the cost of excavation, loading, transporting within stated free haul distance, offloading at the disposal site, the spreading and leveling of all spoiled material to the satisfaction of the Engineer's representative. Freehaul of 10.0km	m ³		3900		
3.2.3	DM 8.3.4	<u>Cut to fill</u> material from road prism including from side channels, as requested by the Engineer or his representative in the site instruction book, stating positions, widths and depths of materials to be cut and other positions to be filled. In all classes of materials, rate shall cover the cost of excavations, loading, transporting, offloading, preparing, processing, shaping, watering mixing, compacting to the densities required or in the manner specified and the finishing off of the slopes where applicable	m ³		1300		
3.2.4	8.3.6(b)	Hard rock material (as specified in SANS 1200D Item 3.1.2.c.1). Quantities with positions and dates shall be recorded in the site instruction book and agreed with the Engineer's representative on site before any blasting or breaking commences and those records shall accompany the certificates accompany the certificates for payment purposes. Rate shall include the cost of spoiling of unusable hard rock material within stated free haul distance of 10.0km	m ³		100		
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.7

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Schedule 3

SCHEDULE 3 : BULK EARTHWORKS & SELECTED LAYERS

Bulk Earthworks & Selected Layers

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
Brought Forward							
3.2.5	8.3.4	Stockpile to fill material where cut to fill operation is not practical and where instructed by the Engineer, Specifications as for item 3.2.1	m ³		150	38,00	
3.3		<u>ROAD BED</u>					
3.3.1	DM	Windrow, rip and compact road bed to the full width of the lowest layer and the					
8.3.3(a)2		kerb and shoulder areas or as shall be pointed out by the Engineer's representative					
8.3.3(b)1		in the site instruction book to a depth of 150 mm (unless otherwise requested by the Engineer), and compacted to 93% MOD AASHTO density to the full width of road reserve, the rate shall cover the cost of windrow, ripping shaping, scarifying, sizing, knapping, rolling, mixing and compaction	m ³		5564	38,00	
3.3.2	8.3.4	Prepare fill with approved imported material for the lower selected, to a nominal thickness of 150 mm or as required in the longitudinal section, the rate shall cover the cost of loading, transporting within stated free haul distance, placing the fill material and the saturate watering, compaction shall be done with 8 passes of a 10 ton vibratory roller to 93% MOD AASHTO density	m ³		0	120,00	
3.3.3	8.3.4	Prepare fill with Unselected Dumprock imported material for the upper selected, to a nominal thickness of 300 mm or as required in the longitudinal section, the rate shall cover the cost of loading, transporting within stated free haul distance, placing the fill material and the saturate watering, compaction shall be done with 8 passes of a 10 ton vibratory roller to 93% MOD AASHTO density	m ³		30		Rate Only
3.3.4	8.3.4(b)	Process fill and in-situ materials by additional heavy grid rolling if required by the Engineer's representative in the site instruction book, the rate shall cover the cost of processing the material as it is stated in the relevant specifications	m ³		136	34,00	
3.3.5	8.3.b(b)	Process clayish material to additional compaction with clay compactor if required by the Engineers' representative in the site instruction book, the rate shall cover the cost of processing the material as it is stated in the relevant specifications	m ³		460	48,00	
3.3.6	5.2.3.2	Removal of Unsuitable ground	m ³		300	34,00	
3.3.7		Provisional sum covering all activities related to the control of abnormal	Sum		1	25 000,00	
	SANS1200	circumstances of ground water activity which in the opinion of the Engineer and/or					
	A	his representative may hinder the work activities on a specified area of the site.					
	8.8.6	Refer to SANS1200A Item 5.5 Dates, places and nature of occurrence shall be recorded in the site instruction book and forwarded with the relevant certificates					
3.3.8	8.3.8	Remove oversize materials, the rate shall cover the excavation in all classes of material, transporting, offloading and spreading at positions as shall be pointed out by the Engineer's representative	m ³		300	48	
3.3.9	8.3.10	Materials bladed to windrow on instruction by the Engineer's representative in the site instruction book, rate shall cover the cost of temporarily removing such material and subsequently replacing it and tidying up at completion of replacement	m ³		340	48,00	
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.8

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Schedule 3

SCHEDULE 3 : BULK EARTHWORKS & SELECTED LAYERS

Bulk Earthworks & Selected Layers

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
C2.2.8							
				Brought Forward			
3.3.10	8.3.14 D	Open up borrow pit if required by the Engineer or his representative in the site instruction book, rate shall cover the cost of construction of necessary access to the borrow pit site, the removal of all vegetable matter and rubbish from where the borrow material shall be obtained, topsoil and overburden shall be stockpiled if requested by the Engineer and the contractor shall maintain the borrow pit in a safe and orderly condition throughout the contract duration, after the completion of the borrowing the contractor shall level the area and replace such overburden as has been stockpiled to the satisfaction of the Engineer's representative	Prov.Sum		1		
3.3.11	8.3.4(b) 5.2.2.2 D	Extra over Item 3.3.10 for dealing with overburden if requested by the Engineer or his representative in the site instruction book, the rate shall cover the costs of trial holes, the removal of overburden to stockpile and the spreading over the borrow area after borrowing is completed. All quantities, positions and dates are to be recorded and signed by the Engineer or his representative in the site instruction book	m ³		600		
3.3.12	8.3.4 D	Surface finishing on fill batters by top soiling from stockpile material, the rate shall cover the cost of excavating from stockpiles, hauling and spreading the material, to a width of 1m, and a depth of 0.75m					
3.3.12.1	8.3.10 5.2.4.2	FILL SLOPE FINISHING	m ²		0		
3.3.12.2		CUT SLOPE FINISHING	m ²		5580		
3.3.13	DM 8.3.12	Additional overhaul beyond 10km free haul distance, date tonnage and distances are to be recorded and agreed to by the Engineer on a daily basis where applicable	m ³ km		900		
3.3.14	DM 8.3.16 ME 8.3.3	Supply 100 mm thick gravel surface shoulder layer on both sides of the road as indicated on the cross sections from stockpile and laid in a layers of not exceeding of 100 mm in thickness and compacted to 97% MOD AASHTO density, the rate shall cover the cost of locating excavating, hauling, placing and compacting the material which have to be approved by the Engineer or his representative in the site instruction book. Freehaul of 10.0km	m		1500		
3.3.15	8.3.8.1c	Excavate by hand in soft material to expose existing services that adjoin roads and provide permanent or temporary protection, length and position to be confirmed by the Engineer's representative in the site instruction book	m ³		360		
3.3.16	A 8.5(b)3	PC amount allowance for relocation by others of electrical services not specified and/or indicated on the relevant drawings but encountered during the road construction, with the confirmation of the Engineer's representative in the site instruction book	Sum		1		
Carried Forward							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.9

MAQUASSI HILLS LOCAL MUNICIPALITY

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Schedule 3

SCHEDULE 3 : BULK EARTHWORKS & SELECTED LAYERS

Bulk Earthworks & Selected Layers

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
C2.2.9							
3,4	SANS1200	SUB BASE			Brought Forward		
3.4.1	ME 8.3.1	Construct 150 mm thick Selected Layer with gravel material excavated in all materials from borrow pits , rate shall cover the cost of locating the material, excavation, basic selection, transporting within 10.0km free haul distances, spreading, watering, compacting to 95% MOD AASHTO density, final grading and testing to the satisfaction of the Engineer or his representative excluding edge beam	m ³		0		
3.4.2	8.3.1	Construct 150 mm thick Sub base with gravel material excavated in all materials from borrow pits , rate shall cover the cost of locating the material, excavation, basic selection, transporting within 10.0km free haul distance, spreading, watering, compacting to 98% MOD AASHTO density, final grading and testing to the satisfaction of the Engineer or his representative excluding edge beam	m ³		800		
3.4.3	D 8.3.4(c) DA 8.3.4	Extra over item 3.4.2 for dealing with overburden if requested by the Engineer or his representative in the site instruction book, the rate shall cover the costs of trial holes, the removal of overburden to stockpile and the spreading over the borrow area after borrowing is completed. All quantities, positions and dates are to be recorded and signed by the Engineer in the site instruction book	m ³		200		
3.4.4	8.3.9	Additional overhaul above 10km free haul distance, date, tonnage and distance are to be recorded and agreed to by the Engineer on a daily basis where applicable	m ³ km		550		
3.4.5	8.3.5(a)	Process Sub Base material by screening if required by the Engineer's representative in the site instruction book, the rate shall cover the cost of processing the material as it is stated in the relevant specifications	m ³		380		
3.4.6	ME 8.3.7	Extra over item 2.6 for the disposal of screened out material from the base within free haul distance as stated in the relevant sections of the Tender Document or as by the Engineer in the site instruction book, rate shall cover the excavation and disposal of	m ³		90		
3.4.7	8.3.5(b)	Process Sub Base material by heavy grid rolling if required by the Engineer's representative in the site instructions book, the rate shall cover the cost of processing the material as it is stated in the relevant specifications.	m ³		784		
3,5	SANS1200	BASE COURSE					
3.5.1	8.3.1 8.3.1	Construct 150mm thick Base Course with gravelmaterial excavated in all materials from borrow pits , rate shall cover the cost of locating the material, excavation, basic selection, transporting within stated free haul distance, spreading, watering, compacting to 98% MOD AASHTO density, final grading and testing to the satisfaction of the Engineer or his representative excluding edge beam (Freehaul of 10.0km)	m ³		784		
3.5.2	8.3.5(d)	Process 150mm thick Base Course material by stabilization, the rate shall cover the cost of processing the material as it is stated in the relevant specifications.	m ³		784		
3.5.3	ME 8.3.8	Stabilizing agent, the rate shall cover the cost of providing and applying the stabilizing agent as described in the relevant specification to the satisfaction of the Engieer or his representative					
3.5.3.1		(g) (i) CEM II B-L (32,5N)	t		42		
TOTAL SCHEDULE 3 CARRIED FORWARD TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.10

MAQUASSI HILLS LOCAL MUNICIPALITY
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SCHEDULE 4 : SURFACING AND KERBING *Schedule 4*
Surfacing and Kerbing

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
4,1		Segmented Paving					
4.1.1	MJ 8.2.2	Supply and place 60 mm thick interlocking concrete block paving with a wet crusing strength of greater than 25 Mpa over the prepared surface with 20mm river sand	m ²	3080	3080		
4.1.2	MJ 8.2.3	Allow for cutting concrete paving blocks alongside the edge of road, including at curving edges to fit concrete beams or kerbs	m	1400	1400		
4,2		CONCRETE KERBING AND EDGE BEAMS					
4.2.1	MK 8.2.1	Supply and lay figure 8C kerb as indicated in drawing no MHLM-MIG-01-2023-24-04-1 on the drawing, rate shall cover all the excavations and spoiling of excess material, concrete, bedding, laying, the backfill behind kerbs, etc., kerb to correspond to SANS 927 of 1969	m	1400	1400		
4.2.2	MK 8.2.1	Supply and lay Type Figure - 16 - Edge kerb as indicated on the relevant details on the drawing, rate shall cover all the excavations and spoiling of excess material, concrete, bedding, laying, the backfill behind kerbs, etc., kerb to correspond to SANS 927 of 1969	m	78	78		
TOTAL SCHEDULE 4 CARRIED FORWARD TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.11

MAQUASSI HILLS LOCAL MUNICIPALITY

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Schedule 5

Ancillary Road Work

SCHEDULE 5: ANCILLARY ROAD WORK

Item No.	Payment Reference	Description	Unit	LIC	Qty	Rate	Amount (R)
5,1		ROAD MARKING : LINES, LETTERS AND NUMBERS					
5.1.1	MM	Use non-reflectorized paint applied at nominal rate of 0,42 l / m2 (or proprietary brand of road marking material applied at the nominal rate of 0.42 l / m2					
5.1.1.1	8.4.1	100 mm Thick white lines, broken and unbroken	m	532	532		
5.1.1.2	8.4.1	150 mm Thick white lines, broken and unbroken	m	532	532		
5.1.1.3	8.4.1	300 mm Thick white lines, broken and unbroken	m	64	64		
5.1.1.4	8.4.1	Straight arrows	No	4	4		
5.1.1.5	8.4.1	"STOP" marking on road	No	8	8		
5.1.2	8.3.1 8.3.3 8.1.1 8.3.4 8.1.2	Sign faces with painted or galvanized background, symbols, characters, legend and border in engineering grade retro-reflective material with signboards constructed from aluminium sheet (2,0 mm thick of area over 2,0 m² up to 10.0 m²). The cost of permanent traffic signs are inclusive of all excavations, trimming, concreting, backfilling with the necessary compaction. disposal of all surplus material, the construction and positioning of all supports, brackets, bolts, etc.					
5.1.2.1	8.3.6	R 1 - "STOP" signs	No	8	8,00		
5,2		Provision of pedestrian crossing with associated road markings as per drawing no MHLM-MIG-01-2023-24-04-3	No	4	4		
5,3		Provision of speed humps with associated road markings as per drawing no MHLM-MIG-01-2023-24-04-3	No	4	4		
TOTAL SCHEDULE 5 CARRIED FORWARD TO SUMMARY							

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.2.12

Summary

BILL OF QUANTITIES

Summary

Schedule No.	Description	Amount (R)
1	Preliminary and General	
2	Day Works	
3	Earthworks	
4	Surfacing and Kerbing	
5	Ancillary Road Work	
SUB TOTAL A		
CONTINGENCIES 10%		
SUB TOTAL B		
VAT 15%		
TOTAL		