

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
1200		GENERAL REQUIREMENTS AND PROVISIONS				
B12.01		Excavation Excavating material within the following depth ranges below ground level for the exposing of/or searching for services:				
(a)						
(i)	LI	0m to 2m soft material	m ³	10,00		
(ii)	LI	hard material	m ³	2,00		
(b)		Extra over item B12.01(a) for excavation by means of hand tools such as picks, crowbars and pneumatic tools or mechanical breakers in close vicinity of services where no machine excavation is permitted:				
(i)	LI	soft material	m ³	2,00		
(ii)		hard material	m ³	1,00		
B12.02		Backfilling				
(a)	LI	Using the excavated material	m ³	5,00		
(b)	LI	Using imported selected material	m ³	6,00		
B12.03(a)		Allow a provisional sum for existing services a to be relocated and/or protected as ordered by the engineer	Prov sum	1,00	700 000,00	700 000,00
(b)		Handling costs and profit in respect of sub-item B12.03(a) above	%	700 000,00		
B12.04		Provision for a Community Liaison Officer				
(a)		Provisional sum for the payment of the Community Liaison Officer and PSC Members	Prov sum	1,00	35 000,00	35 000,00
(b)		Provisional sum for the payment PSC Members (5 off)	Prov sum	1,00	10 500,00	10 500,00
(c)		Handling costs and profit in respect of sub-item B12.04 (a-b)	%	45 500,00		
SECTION 1200 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
1300		CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01		The contractors general obligations				
(a)		Fixed obligations	L.Sum	1,00		
(b)		Value related obligations	L.Sum	1,00		
(c)		Time related obligations	Month	5,00		
B.13.02		Occupational Health & Safety				
(a)		Preparation of Health & Safety Plan	L.Sum	1,00		
(b)		Compilation of a Risk Assessment prior to commencement of Construction.	L.Sum	1,00		
(c)		Health & safety induction training of employees	L.Sum	1,00		
(d)		Compilation and keeping up with date the Health & Safety file which shall include all documentation required in terms of the Act. Implementation of the health and Safety plan over the entire construction period	Month	5,00		
B.13.03		Supply and erect one contract nameboard	L. Sum	1,00		
		PROVISSIONAL SUM STATED BY THE ENGINEERS				
		a) Survey equipments ,Traffic Lights and safety Jackets	Prov sum	1,00		0,00
		b) Handling costs and profit in respect of sub-item (a),(b), (c) and (d) above	%	0,00		
		Provision for accredited training				
		Generic skills	P Sum	1,00	50 000,00	50 000,00
		Entrepreneurial skills	P Sum	1,00	50 000,00	50 000,00
		Handling costs and profit in respect of sub-item E12.05(a) and (b) above	%	100 000,00		
		Training venue (only if required)	L. Sum	1,00		
		NOTE: The combined total tendered for items B13.01(a), (b) and (c) shall not exceed 15% of the Tender sum excluding VAT.				
SECTION 1300 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
1400		HOUSING, OFFICES AND LABORATORIES FOR ENGINEER'S SITE PERSONNEL				
14.01		Office and accommodation:				
(a)		Offices (interior floor space only and as per drawing)	m²	30,00		
(b)		Ablution units	m²	10,00		
14.02		Office furniture:				
(a)		Chairs	No.	10,00		
(c)		Desks, complete with drawers and locks	No.	1,00		
(e)		Conference tables (place for 10 chairs)	No.	1,00		
B14.02 (g)		Survey Equipment	L. Sum	1,00		Rate only
B14.02 (h)		Pinboard (size 1.0 x 1.5 m)	No.	1,00		Rate only
14.03		Office and laboratory fittings, installations and equipment:				
(a)		Items measured by number:				
	(i)	220/250 volt power points	No.	1,00		
	(iii)	Double 80 watt fluorescent light fittings complete with ballast and tubes	No.	1,00		
	(iii)	Wash-hand basins complete with taps and drains	No.	1,00		Rate only
	(vi)	Fire extinguishers, 9,0 kg, all purpose dry powder type, complete, mounted on wall with brackets	No.	1,00		
	(vii)	General purpose steel cupboards with shelves	No.	1,00		Rate only
	(viii)	Steel filing cabinets with drawers	No.	1,00		Rate only
	(x)	Refrigerators (200 l min)	No.	1,00		Rate only
	(xii)	Bookcases	No.	1,00		Rate only
	(xiii)	Voltage stabilizers	No.	1,00		
	(xviii)	Air Conditioning units with 2,2 kW minimum capacity, mounted and with own power connection	No.	1,00		Rate only
(b)		Prime cost items and items paid for in a lump sum				
	(i)	The provision of a direct independent telephone line for the engineer, including the cost of calls in connection with contract administration and telephone rental	Prov sum	1,00	20 000,00	20 000,00
	(ii)	Handling costs and profit in respect of subsubitem 14.03(b)(iii)(1)above	%	20 000,00		
	(iii)	The provision of a fax apparatus as specified	Prov sum	1,00	50 000,00	50 000,00
	(vi)	Handling costs and profit in respect of subsubitem 14.03(b)(iii))above	%	50 000,00		
	(vii)	1) Provision of cellular telephones, Computers, Printing	Prov sum	1,00	15 000,00	15 000,00
		2) Provisional sum for the costs of cellular calls and other charges	Prov sum	1,00	5 000,00	5 000,00
		3) Handling cost and profit in respect of sub-item B14.03(ix) 1 & 2	%	20 000,00		
TOTAL CARRIED TO NEXT PAGE						

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ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
Brought Forward						
(c)		Items measured by area				
	(i)	Vertical blinds	m²	0,00		Rate Only
	(ii)	Notice boards as specified	m²	0,00		Rate Only
14,04		Car ports	No.	1,00		Rate Only
(a)		Car port as specified at offices and laboratory buildings				
14,07		Rented Hotel and other Accomodation				
(a)		Provisional sum for providing rented housing,hotel or other accomodation as described in sub clause 1403(c)(ii)	PC Sum	1,00	25 000,00	25 000,00
(b)		Handling cost and profit in respect of sub-item B14.07(a)	%	25 000,00		
14.10		Provision of photostat facilities	Month	5,00		
B14.11		Provision and erection of security fencing (including gate)	m	100,00		
14/B15.03(n)		Provision of high visibility safety jackets, safety hats and rotating lights for mobile use	No.	4,00		
SECTION 1400 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
1500		ACCOMMODATION OF TRAFFIC				
B15.01	LI	Accommodating traffic and maintaining temporary deviations	km	0,26		
B15.03		Temporary traffic-control facilities				
(a)	LI	Flagmen	man-day	210,00		
(b)		Portable STOP and GO-RY signs	No.	2,00		
(e)		Road signs, R- and TR-series, 1 200mm in diameter	No.	6,00		
(f)		Road signs, TW-series, 1 500mm sides	No.	6,00		
(g)		Road signs, STW-, DTG-, TGS- and TG-series (excluding delineators and barricades)	m²	6,00		
(h)		Delineators (800mm x 200mm):				
	LI	(i) Single	No.	10,00		
		(ii) Mounted back to back	No.	6,00		
(i)	LI	Movable barricades/road sign combination	No.	6,00		
(j)	LI	Traffic cones (750mm high)	No.	20,00		
B15.15		Prime cost sum for:				
(a)		Compensation to landowners for land taken up by Road	P Sum	1,00	100 000,00	Rate Only
(b)		Handling cost and profit in respect of sub-item B15.15(a) above	%	Rate Only		
SECTION 1500 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
1700			CLEARING AND GRUBBING			
B17.01			Clearing and grubbing of:			
(a)			Normal areas:			
		(i)	Within the road reserve	ha	2,00	
		(ii)	In borrow pits	ha	2,00	
17,02			Removal and grubbing of large trees and tree stumps:			
(a)			Girth exceeding 1m up to and including 3m	No.	6,00	Rate only
(b)			Girth exceeding 3m	No.	4,00	Rate only
SECTION 1700 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA							
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
B1800			DAY WORK SCHEDULE				
B18.01		(i)	Labourers: Unskilled	hr	20,00		Rate Only
		(ii)	Semi-skilled	hr	20,00		Rate Only
		(iii)	Skilled	hr	20,00		Rate Only
B18.02			Foreman	hr	20,00		Rate Only
B18.03			Tipper Trucks:				
		(i)	3 - 5 ton	hr	10,00		Rate Only
		(ii)	5,1 - 10 ton	hr	10,00		Rate Only
B18.04			Loader (0.5m³)	hr	10,00		Rate Only
B18.05			Loader (1-2.5m³)	hr	10,00		Rate Only
B18.05			Grader (CAT 140G or similar)	hr	10,00		Rate Only
B18.06			LDV	hr	10,00		Rate Only
B18.07			Compaction Rollers:				
		(i)	Vibrator roller	hr	10,00		Rate Only
		(ii)	Tamping roller	hr	10,00		Rate Only
		(iii)	Grid roller	hr	10,00		Rate Only
B18.08			Hand Controlled Compactors				
		(i)	Pedestrian roller (Bomag BW90)	hr	10,00		Rate Only
		(ii)	Vibratory plate	hr	10,00		Rate Only
		(iii)	Rammers	hr	10,00		Rate Only
B18.09			Water truck (min 10000 l)	hr	10,00		Rate Only
B18.10			Dozer (D7 or similar)	hr	10,00		Rate Only
SECTION B1800 TOTAL CARRIED TO SUMMARY							

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
2100			DRAINS			
21,01			Excavation for open drains:			
(a)			Excavating soft material situated within the following depth ranges below the surface level:			
	LI	(i)	0 m up to 1,5 m	m ³	0,00	
		(ii)	Exceeding 1,5 m and up to 3,0 m	m ³	0,00	
		(iii)	Exceeding 3,0 m	m ³		Rate Only
(b)	LI		Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m ³	0,00	
SECTION 2100 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
2200		PREFABRICATED CULVERTS				
22.01		Excavation				
(a)		Storm water culverts : Excavating soft material situated within the following depth ranges below the surface level				
	(i)	0 m up to 1,5 m	m ³	89,00		
	(ii)	1,5 m up to 3,0 m	m ³	8,90		
(b)		Extra over subitem 22.01 (a) for excavation in hard material, irrespective of depth	m ³	19,58		
B22.02		Backfilling of culverts				
(a)		Using the excavated material	m ³	35,00		
(b)		Using imported G6 material obtained from commercial source	m ³	52,50		
(c)		Extra over subitems 22.02 (a) and (b) for soil-cement backfilling (100 kg cement per m ³)	m ³	10,00		
22.03		Concrete pipe culverts				
(c)		On Class C bedding				
	(i)	450 diameter class 100D	m	0,00		Rate Only
	(ii)	600 diameter class 100D	m	10,98		
	(iii)	900 diameter class 100D	m	0,00		Rate Only
22,05		Portal and rectangular culverts				
	(b)	Without prefabricated floor slabs				
	(i)	1200mm x 600mm Type RP	m	6,1		Rate only
	(ii)	1800mm x 600mm Type RP	m	1,22		
22,06		Extra over items 22.03 and 22.05 for constructing inclined culverts				
(a)		Concrete pipe culverts	m	1,10		
22,07		Cast in-situ concrete and formworks				
(a)		In class A bedding, screeds and the encasing for pipes, including formwork (Class 20/38)	m ³	20,15		
(c)		In inlet and outlet structures, catch pits, manholes thrust and anchor blocks, excluding formwork but including class U2 surface finish (Class 25/19)	m ³	7,35		
(d)		Formwork of concrete under subitem 22.07(c) above				
(i)		Vertical formwork for Class F1 surface finish	m ²	40,00		
(ii)		Vertical formwork for Class F2 surface finish	m ²	53,00		
(iii)		Horizontal formwork for F2 surface finish	m ²	2,00		Rate only
22.10		Steel reinforcement				
(a)		Mild steel bars	ton	0,05		
(b)		High- tensile steel bars	ton	0,47		
(c)		Welded steel fabric ref. 395 mesh	kg	291,67		
22.12		Removing existing concrete				
	(a)	Plain concrete	m ³	2,00		
	(b)	Reinforced concrete	m ³	5,00		
22.13		Remove and re-laying existing pipes				
	(b)	Class B bedding				
	(1)	600mm dia.	m	0,00		Rate Only
	(2)	750mm dia.	m	0,00		Rate Only
TOTAL CARRIED TO NEXT PAGE						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
TOTAL BROUGHT FORWARD						
22.25			Overhaul on excavated material carted to spoil, backfill material (but excluding Portland Cement in the case of soil cement), existing structures removed to spoil, and removing and relaying, and removing and stacking existing pipes, for haul in excess of 1	m ³ -km	89,00	
22.29			Tie bars for joining in situ concrete invert slabs to inlet and outlet structures, as indicated on the drawings (Type, diameter and length indicated)	no	10,00	
B22.30		(a)	Preparation and compaction of in-situ bedding material to 90% of Mod. AASHTO density	m ³	25,00	
		(b)	Extra over sub-item B22.30(a) for compaction to 93% of Mod. AASHTO density	m ³	25,00	
B22.31			Dewatering and keeping dry of culvert excavations	no	5,00	
B22.32			Cutting of concrete pipes			
		(i)	450 diameter class 75D	no	0,00	Rate Only
		(ii)	600 diameter class 75D	no	0,00	Rate Only
		(iii)	600 diameter class 100D	no	2,00	
		(iv)	1200 diameter class 100D	no	2,00	Rate Only
		(iv)	1800 diameter class 100D	no	6,00	
SECTION 2100 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
2300			CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWN PIPES, AND CONCRETE LININGS FOR OPEN DRAINS			
23,01 (a)	LI	(i)	Concrete kerbing Precast kerbing to SABS 927 Figure 8c kerb	m	74,00	
23,07 (a)	LI		Trimming of excavations for concrete-lined open drains: In soft material	m ²	11,10	Rate Only
(b)	LI		In hard material	m ²	1,67	
23,08 (a)		(i)	Concrete lining for open drains: Cast in situ concrete lining Class 25/19: Standard side drain Cast in situ concrete lining class 25/19 for all types of open drains including drifts	m ³	20,00	
23,09 (a)	LI		Formwork to cast in situ concrete lining for open drains (class F2 surface finish): To sides with formwork on the external face only	m ²	14,00	Rate Only
(b)	LI		To sides with formwork on both internal and external faces (each face measured)	m ²		
(c)	LI		To ends of slabs	m ²	2,80	
23,10 (a)	LI		Sealed joints in concrete linings of open drains Polysulphide sealants	m		Rate Only
(b)	LI		Polyurethane-based sealant	m		Rate Only
(c)	LI		Silicone-based sealant	m		Rate Only
(d)	LI		Soft Board expansion	m	22,00	
(e)	LI		Polystyrene expansion	m	33,00	
23,12 (c)	LI		Steel reinforcement: Welded steel fabric (High-tensile steel ref. 311)	kg	8,00	
23,14	LI		Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling and concrete lined drains	m	74,00	
23/22.12 (a)	LI		Removing existing concrete: Plain concrete	m ³	50,00	
23/16.02			Overhaul on material hauled in excess of 1,0km (ordinary overhaul on spoil material)	m ³ -km	150,00	
SECTION 2300 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA							
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
3100			BORROW MATERIALS				
B31.01			Excess overburden				
(a)			Depths up to and including 0,5m	m³	1 250,00		
(b)			Depths exceeding 0,5m and up to 1,0m	m³	250,00		
31,03			Finishing-off borrow areas in:				
(a)			Hard material	ha	0,50		
(b)			Intermediate material	ha	0,10		
(c)			Soft material	ha	0,13		
B31.04			Compensation to landowners:				
(a)			Prime cost sum for compensation to landowners	P.C.	1,00	10 000,00	Rate Only
(b)			Handling costs and profit in respect of sub-item B31.04(a) above	%	10 000,00		Rate Only
31/55.06			Providing temporary fences and gates:				
(a)	LI	(i)	Stock-proof fence (1200mm high with 4 strain)	km	0,40		
(d)	LI	(i)	Temporary gates: Single leaf, 1 200mm high Government pattern farm gate, 4,2m wide	No.	1,00		
C33,03			Penalty for failing to rehabilitate the borrow pit that the Contractor is responsible for:	no		-70 000,00	Rate only
31/32.06			Stockpiling of material	m³	1 750,10		
SECTION 3100 TOTAL CARRIED TO SUMMARY							

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
3300		MASS EARTHWORKS				
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 ³	735,00		Rate only
	(ii)	Compacted to 93% of modified AASHTO density	m ³	735,00		Rate only
	(iii)	Eight-roller-pass compaction	m ³			
33.03		Extra over item 33.01 for excavating and breaking down material in -				
(a)		Intermediate excavation	m ³	147,00		
(b)		Hard excavation	m ³	29,40		
(c)		Boulder excavation class A	m ³	20,00		
(d)		Boulder excavation class B	m ³	20,00		
33.04		Cut to spoil, including free-haul up to 0,5 km				
		Material obtained from -				
(a)		Soft excavation	m ³	0,00		
(b)		Intermediate excavation	m ³	0,00		
(c)		Hard excavation	m ³	0,00		
(d)		Boulder excavation class A	m ³	0,00		
(e)		Boulder excavation class B	m ³	0,00		Rate only
33.05		Overbreak in hard and boulder class A excavation	m ²	65,00		
33.06		Variations in the number of roller passes (applicable to items 33.01(a)(ii), 33.01(b)(iii) and 33.11				
(a)		Vibratory rollers	m ² -pass	55,00		
(c)		Heavy grid rollers	m ² -pass	55,00		
(d)		Tamping rollers	m ² -pass	55,00		
(e)		Impact rollers	m ² -pass	55,00		
33.07		Removal of unsuitable material (including free-haul of 0,5 km)				
(a)		In layer thicknesses of 200 mm and less:				
	(i)	Stable material	m ³	0,00		
	(ii)	Unstable material	m ³	0,00		
33.09		Material bladed down to windrow	m ³	74,00		
33,10		Roadbed preparation and the compaction of material				
(a)		Compaction to 90% of modified AASHTO density	m ³	491,40		
(b)		Compaction to 93% of modified AASHTO density	m ³	491,40		Rate only
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ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
Brought Forward						
33.11		Three-pass-roller compaction				
(a)		Vibratory rollers	m ²			Rate only
(c)		Heavy grid rollers	m ²	2 080,00		
(f)		Pneumatic-tyre roller	m ²			Rate only
33.12		In situ treatment of roadbed				
(a)		In-situ treatment by ripping	m ³	491,40		
(b)		In-situ treatment by blasting	m ³	491,40		Rate only
33.13		Finishing-off cut and fill slopes, medians and interchange areas				
		(a) Cut slopes	m ²	0,00		
		(b) Fill slopes	m ²			
33/1600		OVERHAUL				
33/16.01		Overhaul on material hauled in excess of a free-haul distance of 0,5 km, for haul up to or through 1,0 km (restricted overhaul)	m ³	0,00		
33/16.02		Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m ³ -km	0,00		
33/32.06		Stockpiling of material	m ³	0,00		
SECTION 3300 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
3400		PAVEMENT LAYERS OF GRAVEL MATERIAL				
34,01		Pavement layers constructed from gravel taken from cut or borrow, including free-haul up to 1,0km:				
(a)		Gravel selected layer (un-stabilized gravel) compacted to:				
	(i)	93% of modified AASHTO density (150mm thick)	m³	1 351,35		
(c)		Gravel Subbase (un-stabilized material) compacted to:				
	(i)	95% of modified AASHTO density (150mm thick)	m³	536,00		Rate only
	(ii)	97% of modified AASHTO density (150mm thick)	m³			Rate only
(d)		Gravel Subbase (chemically stabilized material) compacted to:				
	(i)	96% of modified AASHTO density (150mm thick)	m³	536,00		
(f)		Gravel base (chemically stabilized material) compacted to:				
	(i)	98% of modified AASHTO density (150mm thick)	m³	526,00		
(g)		Gravel shoulders compacted to:				
	(i)	93% of modified AASHTO density (150mm thick)	m³	204,75		
(h)		Gravel wearing course compacted to:				
	(i)	95% of modified AASHTO density (150mm thick)	m³			Rate only
34,02		Extra over item 34.01 for excavation of material in:				
(a)		Intermediate excavation	m³	315,00		
(b)		Hard excavation	m³	221,00		
34,07		Extra over item 34.01 for temporarily blading the material to windrow	m³	300,00		
34/16.01		Overhaul on material hauled in excess of a free-haul distance of 0,5 km, for haul up to or through 1,0 km (restricted overhaul)	m³	2 082,10		
34/16.02		Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m³-km	4 164,20		
34/32.04		Removal of oversize pavement material	m³	15,00		
34/32.05		Additional normal grid rolling	m³	70,00		
34/32.06		Stockpiling of material	m³	1 249,26		
SECTION 3400 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
3500			STABILIZATION			
35,01			Chemical stabilization extra over un-stabilized compacted layers:			
		(i)	Base layer, 150mm thick	m³	526,00	
		(ii)	Subbase layer, 150mm thick	m³	536,00	
35,02			Chemical stabilizing agent:			
(a)			Ordinary Portland cement	t	82,00	
(b)			Portland blast-furnace cement	t		Rate only
(c)			Slaked road lime	t		Rate only
SECTION 3500 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
4100			PRIME COAT			
41,01			Prime coat:			
(a)			RTL 3/12P tar prime	l	0,00	Rate only
(b)			Quick drying RTH 1/4P tar prime	l	2 775,36	
(c)			MC-30 cut-back bitumen	l	2 775,36	Rate only
(d)			MC-70 cut-back bitumen	l		Rate only
(e)			Invert bitumen emulsion	l		Rate only
41,02			Aggregate for blinding:			
		(i)	Natural sand	m ²	50,00	
		(ii)	Crushed sand	m ²	5,00	Rate only
41,03			Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	l	250,00	
SECTION 4100 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA							
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
4200			ASPHALT BASE AND SURFACING				
42,02			Asphalt surfacing				
(a)			Asphalt Surfacing-Continuously Graded (Medium) 30mm	m²	3 469,20		
42,04	LI		Tack Coat 30% Stable-Grade Emulsion	l	2 081,52		
42,05			Binder Variation - 60/70 Pen Bit	l	242,84		
42,06			Variation active filler content				
(a)			Cement	t	1,00		
42,21	LI		Complete Speed hump according to drawing (Signs, asphalt and road markings, As per Drawing)	No	0,00		
SECTION 4200 TOTAL CARRIED TO SUMMARY							

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
5100			PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION			
51,01			Stone pitching			
(b)			Grouted stone pitching	m ²	52,38	
51,04 (a)		(i)	Concrete pitching and block paving Cast in situ concrete pitching, Class 30/19: 150mm thick (Mesh Ref 311 included)	m ²	45,00	Rate Only
51,05			Concrete edge beams (0.2mm x 0.25mm) (class 25/19MPa)	m ³	0,00	
SECTION 5100 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
5200			GABIONS			
52,01 (b)	LI LI		Foundation trench excavation and backfilling: In all other classes of material	m ³	100,00	Rate Only
52,02	LI		Surface preparation for bedding the gabions	m ²	350,00	Rate Only
52,03 (a)	LI LI		Gabions Galvanized gabion boxes, wire diameter 2,7mm, Mesh size 80mm x 100mm, diaphragm spacing: 1,0m			
(i)	LI	(i)	4m x 1m x 1m	m ³	400,00	Rate Only
(c)	LI		Galvanized gabion mattresses (wire diameter 2,5 mm, mesh size 80mm x 100mm, diaphragm spacing 1,0m			
(i)	LI		2m x 1m x 0,23m deep	m ³	50,00	Rate Only
(ii)	LI		2m x 1m x 0,30m deep	m ³	75,00	Rate Only
52,04 (a)	LI LI		Filter fabric Grade U24 or approved equivalent	m ²	320,00	Rate Only
SECTION 5100 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
5400		GUARDRAILS				
54,01 (a)	LI	Guardrails on timber posts: Galvanized	m			Rate only
54,02 (a)	LI	Guardrails on steel posts: Galvanized	m			Rate only
54,03		Extra over items 54.01 for horizontally curved guardrails factory bent to a radius of less than 45 m	m	15,00		Rate only
54,04 (a)		End treatments: End wings (Terminal Section)	No.			Rate only
(b)		Bull noses	No.	6,00		Rate only
(c)	LI	Bridge adaptors	No.			Rate only
54,06		Reflective plates	No.	20,00		Rate only
54,07	LI	Removing existing guardrails	m			Rate only
54,12		Extra over item 54.01 for drilling and blasting holes for guardrail posts	No.	24,00		Rate only
54,13		Steel base plates for timber guardrail posts on structures	No.	24,00		Rate only
54,15		Extra over item 54.02 to fasten guardrails to bridge	No	24,00		Rate only
SECTION 5400 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
5500			FENCING			
55,04			Moving existing fences and gates:			
(a)	LI	(i)	Fences:			
			Stock-proof fences	km	0,50	Rate only
	LI	(ii)	Security fences	km	0,50	Rate only
(b)			Gates	No.	6,00	Rate only
SECTION 5500 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
5600			ROAD SIGNS			
B56.01			Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in diamond grade retro-reflective material, where the sign board is constructed from:			
(a)			Aluminium sheet (2,0 mm thick):			
	LI	(i)	Area not exceeding 2 m ²	m ²	50,00	
	LI	(ii)	Area exceeding 2 m ² but not 10 m ²	m ²		
	LI	(iii)	Area not exceeding 10 m ²	m ²		
56,02			Extra over item 56.01 for using:			
(a)			Background of retro-reflected material:			
		(i)	Class I	m ²		Rate only
		(ii)	Class II	m ²		Rate only
		(iii)	Class III	m ²	60,00	
56,03			Road sign supports (overhead road sign structures excluded):			
(a)			Structural steel	t	1,00	Rate only
(b)			Steel tubing	t	1,00	Rate only
(c)			Timber			
	LI	(i)	100 mm dia.	m	50,00	
	LI	(ii)	150 mm dia.	m	30,00	
56,04			Kilometre posts			
(a)			Concrete	No	2,00	Rate only
56,05	LI		Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	11,00	
56,06	LI		Extra over item 56.05 for cement-treated soil backfill	m ³	15,00	
56,07			Extra over item 56.05 for rock excavation	m ³	12,00	
SECTION 5600 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
5700		ROAD MARKINGS				
57,02		Retro-reflective road-marking paint:				
(a)		White lines (broken or unbroken):				
	(i)	100mm wide	km	0,56		Rate only
	(ii)	200mm wide	km			
	(iii)	500mm wide	km	0,50		
(b)		Yellow lines (broken or unbroken):				
	(i)	100mm wide	km	0,50		Rate only
	(ii)	150mm wide	km			Rate only
(d)		White lettering and symbols	m²	50,00		
(e)		Yellow lettering and symbols	m²	35,00		Rate only
(f)		Transverse lines, painted island and arrestor bed markings (any colour)	m²	125,00		Rate only
57,04		Variations in rate of application:				
(a)		White paint	l	20,00		
(b)		Yellow paint	l	20,00		
(c)		Retro-reflective beads	kg	15,00		
57,05		Roadstuds				
(a)		Uni-directional				
	(i)	Stimsonite or similar	No	2,00		Rate only
	(ii)	Armourlite or similar	No	2,00		Rate only
(b)		Bi-directional				
	(i)	Stimsonite or similar	No	2,00		Rate only
57,06		Setting out and pre-marking the lines (excluding traffic island markings, lettering and symbols)	km	0,56		
57,07		Re-establishing the painting unit:				
(a)		At intervals during the contract period	No.	1,00		Rate only
(b)		At the end of the maintenance period	L.SUM.	1,00		Rate only
57,08		Removal of existing, temporary or permanent road markings by:				
(a)		Sandblasting	m²	5,00		Rate only
(b)		Over painting as temporary measure	m²	5,00		Rate only
SECTION 5700 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC		DESCRIPTION	UNIT	QUANTITIES	AMOUNT (R)
5900			FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS			
59,01 (b)			Finishing the road and road reserve: Single carriageway road	km	0,26	
SECTION 5900 TOTAL CARRIED TO SUMMARY						

UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA						
ITEM	LIC	DESCRIPTION	UNIT	QUANTITIES	RATE	AMOUNT (R)
8100		TESTING MATERIALS AND WORKMANSHIP				
81,02		Other special tests requested by the engineer	Prov Sum	1,00	0,00	-
(b)		Handling costs and profit in respect of sub-item 81.02 above	%	0,00		
SECTION 8100 TOTAL CARRIED TO SUMMARY						

LEPELLE NKUMPI LOCAL MUNICIPALITY CONTRACT NUMBER : LNM002/2018/19 FOR UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA SUMMARY OF SCHEDULE OF QUANTITIES			
SCHEDULE A: ROADWORK'S			AMOUNT
1200		General requirements and provisions	
1300		Contractor's establishment on site and general obligations	
1400		Housing, offices and laboratories for the engineer's site personnel	
1500		Accommodation of traffic	
1700		Clearing and grubbing	
1800		Day works	
2100		Drains	
2200		Prefabricated Culverts	-
2300		Concrete kerbing, concrete channelling, chutes and downpipes, and concrete linings for open drains	
3100		Borrow materials	
3300		Mass earthworks	
3400		Pavement layers of gravel material	
3500		Stabilization	
4100		Prime Coat	
4200		Asphalt Base and Surfacing	
5100		Pitching, stonework and protection against erosion	
5200		Gabions	
5400		Guardrails	
5500		Fencing	
5600		Road Signs	
5700		Road markings	
5900		Finishing the road and road reserve and treating old roads	
8100		Testing materials and workmanship	
TOTAL SCHEDULE A: ROADWORK'S			

LEPELLE NKUMPI LOCAL MUNICIPALITY CONTRACT NUMBER : LNM002/2018/19 FOR UPGRADING OF ACCESS ROAD FROM GRAVEL TO TAR: KLIPHUIWEL (WARD 01) PHASE 2: BID NUMBER. TBA CALCULATION OF CONTRACT SUM		
TOTAL SCHEDULE A: ROADWORK'S	A	
TENDER SUM (CARRIED FORWARD TO LETTER OF TENDER)	C = A+ B	
0,05	D=C*5%	
The sum provided here is under the sole control of the Employer and may be deducted in whole or in part. The tenderer shall add 10% of the total of schedule of quantities for contingencies.		
SUBTOTAL	F =C+ D + E	
VALUE ADDED TAX (VAT) 15%	F=E*15%	
The tenderer shall add 15% of the subtotal for VAT		
TOTAL	H =F+ G	