

CITY OF MBOMBELA MUNICIPALITY
 BID NO. COM07/2023
 UPGRADING OF MZAMANI ROAD

COLTO	EPWP	Description	Unit	Qty	Rate (R)	Amount (R)
1200		<u>BILL NO. 01</u> <u>GENERAL REQUIREMENT AND PROVISION</u>				
12.01		Payment of Community Liason Officer	PC Sum	1	120 000.00	120 000.00
		b) Handling costs and profit in respect of 12.01 above	%	R 120 000.00		
12.02		Provision of Structutred Training				
		Provision of accredited training	PC Sum	1	120 000.00	120 000.00
		b) Handling costs and profit in respect of 12.02 above	%	R 120 000.00		
12.03		Community participation				
		a) Cost of community participation and PSC support	PC Sum	1	20 000.00	20 000.00
		b) Handling cost and profit in respect of sub item 12.06 a)	%	R 20 000.00		
12.04		Occupational health and safety				
		Compliance with: Safety Induction and medical fitness screening in respect of OHS Act and Construction Regulations.	Sum	1		
12.05		Occupational Health and Safety				
		(a) Preparation of Health and Safety Plan	sum	1		
		(c) Personal Protective Clothing and Equipment	sum	1		
		(e) Establishment of Safety Administration	sum	1		
12.06		Environmental Managemant				
		Compliance with Environmental Management plan	sum	1		
12.07		Relocation of existing services - Water lines	P/Sum	1	550 000.00	550 000.00
		(a) Handling costs and profit in respect of 12.07 above	%	R 550 000.00		
12.08		Relocation of existing services - Electric poles	P/Sum	1	650 000.00	650 000.00
		(a) Handling costs and profit in respect of 12.07 above	%	R 650 000.00		
Carried forward to Summary of Bills			Total			

**CITY OF MBOMBELA MUNICIPALITY
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COLTO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
13.01	The contractors general obligations :				
	(a) Fixed obligations	Lump sum	1		
	(b) Value-related obligations	Lump sum	1		
	(c) Time-related obligations	Month	10		
13.03	Supply,transport and erect sign board as per engineer drawings	No.	2		
	NB: Item(a),(b) and (c) above must not exceed 15% of tender sum when combined				
1300	TOTAL CARRIED TO SUMMARY				

CITY OF MBOMBELA MUNICIPALITY
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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
14.01	LI	<u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u>				
		Office and laboratory accommodation: (a) Offices, boardroom (interior floor space only) (b) Ablution unit: (i) 6 (SIX) Site units (c) Car ports: 12 x 5.6m Car ports with shade	m² month No	45 8 1		
14.02		Office and laboratory furniture: (a) Chairs (d) Desks, complete with drawers and locks (f) Confrence table	No. No. No.	16 1 1		
14.03		Office and laboratory fittings, installations and equipment: (a) Items measured by number: (i) 220/250 volt power points (ii) lights fittings around the camp, complete with 100 watt globes (v) Single incandescent-light fittings complete with 100 watt globes (vi) Wash Hand Basins complete with taps and drains. (x) Fire estinguishers, 9.0kg all purpose dry powder type, complete, mounted on wall with braskets. (xi) Air conditioning Units with, 2.2kw minimum capacity, mounted and with own powder connection. (xiv) General-purpose steel cupboards with shelves. (xv) Steel filing cabinets with drawers. (xvi) Rain gauge (b) Prime cost items and items paid for in a lump sum: (b) (ix) Provision of Cellular Telephones (1) Provision of cellular phones (2) Cost of calls in connection with contract administration, local calls and telephone rental	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. <			

ACHEDULE A

CITY OF MBOMBELA MUNICIPALITY
 BID NO. COM07/2023
 UPGRADING OF MZAMANI ROAD

COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1400		TOTAL BROUGHT FORWARD				
A14.04		(iii) Handling costs and profit in respect of 14.03(b)(ix)(1) and (2) above	%	6 000.00		
		Rented, hotel and other accommodation:				
		(a) Provisional Sum for providing rented housing, hotel or other accommodation as described in Subsubclause 1403(c)(ii)	P/sum	Rate Only		Rate Only
		(b) Handling costs and profit in respect of subitem 14.07(a)	%	Rate Only		Rate Only
A14.05		Services				
		The provision of water, electricity, low pressure gas, sewerage, septic tank, sewage and rubbish removal, cleaning services, maintainance and repairs, all as specified in clause 1404, including the construction and maintainance of the access roads, footpaths, etc:				
		(a) Services at offices and laboratories:				
		(i) Fixed costs	lump sum	1		
		(ii) Running costs	month	10		
		Provision of photostat facilities	month	10		
		Provision of facsimile facilities	month	10		
A14.06		Computers, printers and modem				
		(a) Laptop computer as per Engineer's specifications	Prov Sum	1	20 000.00	20 000.00
		(c) External 56k fax modem	Prov Sum	1	1 500.00	1 500.00
		(d) Portable printer	Prov Sum	1	5 000.00	5 000.00
		(e) Handling costs and profit in respect of 14.13(a), (b) and (c) above	%	26 500.00		
1400		TOTAL CARRIED TO SUMMARY - SCHEDULE A				

ACHEDULE A

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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500		ACCOMMODATION OF TRAFFIC				
15.01		EXISTING ROADS USED AS TEMPORARY DEVIATION				
		a) During construction	km	5		
15.02		Temporary traffic-control facilities:				
	LI	(a) Flagmen	man-days	1240		
		b) Portable STOP and GO-RY signs	No	4		
		d) Amber flicker lights	No	2		
		e) Road signs, R- and TR-series, (size indicated)				
		i) R-series(1200mm diameter)	No	6		
		iii) TR-series(1200mm diameter)	No	6		
		f) Road signs, TW-series, (size indicated)				
		i) Rectangular				
		1) 1800mm X2400mm	No	12		
		2) 1400mmX2400mm	No	5		
		ii)Triangular(1500mm sides)	No	5		
		g) Road signs, STW-, DTG-, TGS- and TG-series (Engineering grade background sizes as specified for 120km/h)				
		i) TGS-series	m2	5		
		ii) TW-series	m2	3		
		iii) IN-series	m2	4		
		h) Delineators (1W4U1/1)1000mmx250mm plus sandbags				
		i) Singles	No	400		
		ii) Mounted back to back	No	100		
		i) Movable barricade/road sign combination	No	5		
		j) Traffic cones(750mm)	No	80		
		m) Two-way communication devices	No	4		
1500		TOTAL CARRIED FORWARD				

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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1500		TOTAL BROUGHT FORWARD				
15.03		n) Provision of high visibility safety jackets & safety hats	No	25		
		o) Repair of temporary road signs and delineators	P/Sum	1		
		p) Replacement of damaged temporary road signs and delineators	P/Sum	1		
		Relocation of traffic -control facilities	Sum	1		
		Gravelling and repair of temporary deviations and existing gravel shoulders used as temporary deviations:				
		b) Existing gravel shoulder	m3	280		
		Watering of temporary deviations	kl	267.3		
		Blading by road grader of:				
		c) Existing gravel shoulders used as temporary deviations	km-pass	480		
		Traffic signals				
15.04		30 amber flashing lights mounted on signs	sum	1		
15.05		Provision of traffic safety equipment for use by the engineer				
		Traffic safety officer	month	10		
1500		TOTAL CARRIED TO SUMMARY				

UPGRADING OF MZAMANI ROAD

COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
17.04	LI	<u>CLEARING AND GRUBBING</u>				
		Clearing and grubbing				
		(a) Clearing and grubbing	ha	3		
		Removal of topsoil and unsuitable material and temporary stockpiling thereof in:				
		(a) Topsoil in windrows alongside the work area	m3	2 000		
		(b) Topsoil in temporary stockpiles after loading material into trucks including 1,0km freehaul	m3	2 000		
		(d) Unsuitable material in temporary stockpiles at borrow pits	m3	2 500		
1700		TOTAL CARRIED TO SUMMARY				

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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1800		DAYWORKS SCHEDULE				
18.01		Labourers:				
		(i) Unskilled labour	h	1		Rate Only
		(ii) Semi-skilled labour	h	1		Rate Only
		(iii) Skilled labour	h	1		Rate Only
		(iii) Ganger	h	1		Rate Only
		(iii) Foreman	h	1		Rate Only
18.02		Tipper trucks:				
		(i) 6m ³	h	0		Rate Only
		(ii) 10m ³	h	0		Rate Only
18.03		Materials				
		(a) Procurement of materials	prov sum	1	100 000.00	100 000.00
		(b) Contractor's handling costs, profit and all other charges in respect of subitem B1803(a)	%	100 000.00	0.10	10 000.00
18.04		Excavator	h	0		Rate Only
18.05		Grader (CAT 140G or similar)	h	0		Rate Only
18.06		LDV	h	0		Rate Only
18.07		Compaction Rollers:				
		(i) Vibrator roller	h	0		Rate Only
		(ii) Padfoot roller	h	0		Rate Only
		(iii) Grid roller	h	0		Rate Only
18.08		Hand Controlled Compactors:				
		(i) Pedestrian roller (Bomag BW90)	h	0		Rate Only
		(ii) Vibratory plate	h	0		Rate Only
		(iii) Rammers	h	0		Rate Only
18.09		Water truck (min. 18000 l)	h	0		Rate Only
18.10		Dozer (D7 or similar)	h	0		Rate Only
1800		TOTAL CARRIED TO SUMMARY				

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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2100	LI	<u>DRAINS</u>				
21.01		Excavation for open drains: (a) Excavating soft material situated within the following depth ranges below the surface level: (i) 0m up to 1,5m	m ³	535		
21.03		(a) Excavation of sub-soil drainage system (i) 0m up to 1,5m	m ³	300		
		(b) Extra over subitem (i) in hard material, irrespective of depth	m ³	150		
21.04		Impermeable backfilling to subsoil drainage system	m ³	350		
21.06		Natural permiable material in subsoil drainage system (crushed stones) (a) crushed stones obtained from approved sources	m ³	200		
21.08		Pipes in subsoil drainage system (a) 150mm perforated Pitch-fibre pipes and fittings with couplings	m	400		
		Synthetic - fibre filter fabric (high quality non-woven geotextile)	m ²	200		
21.12		Concrete outlet structures, manhole boxes, Junction boxes and eyes for subsoil drainage system: (a) Outlet structures	no	6		
2100		TOTAL CARRIED TO SUMMARY - SCHEDULE B				

ACHEDULE B

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COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
22.01		Excavation:				
		(a) Excavating soft material situated within the following depth ranges below the surface level:				
		(i) 0 m up to 1,5m	m ³	6580		
		(ii) Exceeding 1,5m and up to 3,0m	m ³	120		
		(iii) Exceeding 3,0m and up to 4,5m	m ³	50		
		(b) Extra over item B22.01(a) for excavation in hard material, irrespective of depth	m ³	2345		
22.02		Backfilling:				
		(a) Using the excavated material	m ³	440		
		(b) Using imported selected material:				
		(i) Granular material	m ³	120		
		(c) Extra over subitems B22.02 (a) and (b)(i) for soil cement back-filling : (4% of Portland cement by volume)	m ³	100		
22.03		Concrete pipe culverts:				
		(b) On class A bedding:				
		(i) 75 D-load pipes, SC type, Ogee joints:				
		(1) 600 mm dia	m	rate only		rate only
		(2) 750 mm dia	m	600		
		(3) 900 mm dia.	m	rate only		rate only
		(4) 1050 mm dia.	m	rate only		rate only
		(5) 1200 mm dia.	m	rate only		rate only
22.05		Portal and rectangula culverts				
		(b) without prefabricated floor slabs				
		(i) 1500mm x 1200mm	m	100		
		TOTAL CARRIED FORWARD				

COLTO	LABOUR INTENSIVE (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2300		<u>CONCRETE KERBING, CONCRETE CHANNELING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u>				
23.01	LI	Concrete kerbing				
		(a) Precast kerbing to SABS 927				
		(i) Figure 7 kerb	m	100		
		(ii) Figure 8C mountable kerb	m	4 300		
23.05	LI	Inlet, outlet, transition and similar structures				
		(a) Open chutes (Class 25/19 concrete):				
		(i) Chute inlets Type A				
		1) On slope	No	4.00		
		2) At low point				
		(ii) Chute outlets Type C	No	2.00		
		(iv) Chute outlets (Type D)	m ³	5.00		
23.07	LI	Trimming of excavations for concrete-lined open drains:				
		(a) In soft material	m ²	60		
		(b) In hard material	m ²	60		
23.08	LI	Concrete lining for open drains:				
		(a) Cast in situ concrete lining (Class 25/19 concrete):				
		(i) Side drains	m ³	110		
		(b) Class U2 surface finish to cast in situ concrete:				
		(i) Side drains	m ²	1034		
23.09	LI	Formwork to cast in situ concrete lining for open drains				
		(b) To side with formwork on both internal and external	m ²	188		
		(c) To ends of slabs and top	m	1880		
23.1	LI	Sealed joints in concrete linings of open drains (2 layers of 3-ply malthoid)	m	200		
23.12		Steel reinforcement				
		c) Welded steel fabric mesh 395	ton	3		
		Demolishing of concrete structures	P sum	1	185 000.00	185 000.00
2200		TOTAL CARRIED FORWARD TO SUMMARY				

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COLTO	LABOUR INTENSIVE (LI)	Description	Unit	Qty	Rate	Amount
Section 3100		BORROW MATERIALS				
31.01		Excess overburden	m³	15		
31.01		Clear and Grub				
		Normal areas	ha	1		
31.04		Compensation to landowners				
		Prime cost sum for compensation to landowners	PC Sum	1	50 000	50 000
		Handling cost and profit in respect of sub-item B31.04(a) above	%	50 000		
31.03		Finishing-off borrow areas in:				
		Hard material	ha	1		
		Intermediate material	ha	1		
		Soft material	ha	1		
3100		TOTAL CARRIED FORWARD TO SUMMARY				

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COLTO	LABOUR INTENSIVE (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3200		SELECTION, STOCKPILING AND BREAKING - DOWN THE MATERIAL FROM BORROW PITS, EXISTING LAYERS, CUTTINGS AND PLACING AND COMPACTING THE GRAVEL LAYERS				
32.06		Stockpiling of material	m³	9600		Rate only
32.10		disposing of unsuitable material	m³	0		
32.09		Placing and compacting the materials in layer thicknesses in excess of 200mm				
		(c) Rock fill	m³	3000		
		(i) Compacted to 93% of modified AASHTO density	m²	2000		
3300		TOTAL CARRIED FORWARD TO SUMMARY				

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3300 MASS EARTHWORKS

COLTO	LABOUR INTENSIVE (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3300		MASS EARTHWORKS				
33.04		Cut to Spoil, including fre-haul up to 0.5 km				
		(i) Soft excavation	m³	6 140		
		(ii) Intermediate excavation	m³	1 800		
		(iii) Hard excavation	m³	2 560		
		(iv) Boulders excavation	m³	1 500		
33.1		Roadbed preparation and the compaction of material				
		(i) compacted 90% modified AASHTO density	m³	3 000		
		(ii) compacted 93 % modified AASHTO density	m³	2 400		
33.12		In situ treatment of roadbed				
		(a) In situ treatment by ripping	m³	3 000		
		(b) Is situ treatment by blasting	m³	750		
33.13		Finishing-off cut and fill slopes, medians and interchange areas:				
		(a) Cut slopes	m²	1 200		
		(b) Fill slopes	m²	950		
33.14		Rock fill	m³	1 500		
3300		TOTAL CARRIED FORWARD TO SUMMARY				

COLTO	LABOUR INTENSIVE (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
34.01		Pavement layers constructed from gravel taken from barrow pit & stock piled material (b) Gravel subbase (C4) layer compacted (i) 93% of modified AASHTO density (150mm compacted layer thickness) (c) Gravel base (G2) compacted to: (i) 98% of modified AASHTO density (150mm compacted layer thickness) - commercial source (k) Gravel shoulders wearing course compacted to 93% of modified AASHTO Non-cemented Material	 m³ m³ m³	 5 400 2 400 1 500		
34.02		Extra over item 34.01 for excavation of material in: Gravel subbbase Gravel base Gravel wearing course	 m³ m³ m³	 810 360 150		
34.11		Watering of pavement floors including curing & temporary by-pass	kl	19 008		
3400		TOTAL CARRIED FORWARD TO SUMMARY				

SECTION 3500 : STABILIZATION

COLTO	LABOUR INTENSIVE (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
35.01		Chemical stabilization extra over unstabilized compacted layers:				
		(a) base - C4 : (thickness : 150mm)	m ³	2 640		
35.02		Chemical stabilizing agent:				
		(a) Ordinary portland cement	t	300		
		(c) Slaked road lime	t	Rate only		Rate only
		(d) Ground granulated blast-furnace slag	t	Rate only		Rate only
35.04		Curing by covering with subsequent layer	m ²	16 000.00		
35.07		Trial sections where ordered (extra over item B35.02)	m ³	500.00		
35.10		Extra over item B35.01 for chemical stabilization in restricted areas				
		(a) mixing in mechanical mixers	m ³	132		
		(b) In situ mixing	m ³	132		
3500		TOTAL CARRIED FORWARD TO SUMMARY				

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COLTO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
42.01	Asphalt Surfacing:				
	(a) 30 mm Continuously graded, medium grade, using 60/70 penetration grade bitumen	m ²	Rate Only		Rate Only
42.04	Tack coat of 30% stable-grade emulsion	litre/m ²	Rate Only		Rate Only
42.06	Variation in active filler content				
	(a) Cement	ton	Rate Only		Rate Only
	(b) Lime	ton	Rate Only		Rate Only
	(d) Milled granulated blast-furnace slag	ton	Rate Only		Rate Only
	(d) Fly-ash	ton	Rate Only		Rate Only
3500	TOTAL CARRIED FORWARD TO SUMMARY				R -

COLTO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
51.01	<u>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</u>				
	Stone pitching:				
	(b) Grouted stone pitching	m²	2 500		
	51.05 Concrete edge beams				
	25Mpa Concrete	m³	10		
51.06	Provision of approved herbicide and ant poison	L/sum	1		
51.07	Foundation Trenches	m³	180		
5100	TOTAL CARRIED TO SUMMARY				

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COLTO	EPWP	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5200		GABIONS				
52.01		Foundation trench excavation and back filling				
		(a) In solid rock (Material that requires blasting)	m ³	Rate only		Rate only
		(b) in all other classes of material	m ³	100		
52.02	LI	Surface preparation for bedding the gabions	m ²	300		
52.03	LI	Gabions				
		(a)Galvanised gabions boxes (2x1x1m)(Lxbxh)	m ³	300		
		(b) Galvanised gabions Mattresses	m ³	250.00		
		(c) Gabion rocks	m ³	300.00		
52.04	LI	Filter fabric	m ²	225.00		
5100	TOTAL CARRIED FORWARD TO SUMMARY					

COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5400		GUARDRAILS				
54.01		Guardrails on timber posts:				
		(a) Galvanized.	m	380.00		
		(b) Painted	m			
54.04		End treatments:				
		(a)End wings.	No	50.00		
		(d)End treatments where single guardrail sections are used,	No	26.00		
54.05		Additional guardrail posts				
		(a) timber	No.	100.00		
		(b) Steel	No.	25		
54.06		Reflective plates	No	250		
54.14		Nailing of gang nail plate on top of timber guardrail post	No	0		
		Fabrication, supply and installation of Balustrade as per detailed drawing No	m	40		
5400	TOTAL CARRIED FORWARD					

COLTO	Labour Intensive	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5600		<u>ROAD SIGNS</u>				
56.01	LI	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:				
		(1) Stop Sign (R1.1)	No.	6.00		
		(2) Speed limit (R201,TR201)	No.	2.00		
		(3) Winding road (W208,TW208,W209,TW209)	No.	0.00		
		(4)Pedestrian crossing (W306, TW306)	No.	1.00		
		(5)Children (W308, TW308)	No.	2.00		
		(6) Approaching speedhump (W332)	No.	3.00		
B56.02	LI	(7) Danger plates (W401, TW401)	No.	10.00		
		(8) Sharp curve chevron (W406)(TW406, W408, TW408)	No.	2.00		
		(9) T-junction chevron (W409, TW409)	No.	2.00		
		(10)Dead-end (W410), Road closed chevron (TW410)	No.	0.00		
		(11) Traffic Calming (Speedhump) (W413)	No.	0.00		
56.03	LI	Extra over B56.01 for using:				
		(a) Background of retro-reflective material:				
		(iii) Class III	m ²	10.00		
		(b) Lettering, symbols, numbers, arrows, emblems				
		(ii) Diamond grade	m ²	30.00		
TOTAL CARRIED FORWARD						

TOTAL BROUGHT FORWARD						
56.05	LI	Road sign supports (overhead road sign structures excluded) (a) Galvanised D-Shape steel tubing (wall thickness 2mm)				
		(i) 75mm	No	10.00		
56.06	LI	(ii) 100mm	t	Rate only		Rate only
56.1	LI	Excavation and backfilling for road sign supports (not applicable to kilometre posts)	m ³	35.00		
		Extra over item 56.05 for cement-treated soil backfill	m ³	20.00		
		Extra over item 56.05 for rock excavation	m ³	Rate only		Rate only
5600	TOTAL CARRIED TO SUMMARY - SCHEDULE B					

COLTO	Labour Intensive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
5700		<u>ROAD MARKINGS</u>				
57.02		Retro-reflective road-marking paint:				
		(a) White lines (broken or unbroken):				
		(i) 150 mm wide	km	2.5		
		(ii) 300 mm wide	m	300.0		
		(iii) 500 mm wide	m	rate only		rate only
57.04		(b) Yellow lines (broken or unbroken)				
		(i) 150 mm wide	km	4.5		
		Variations:				
		(a) Yellow paint	litre	40.00		rate only
		(b) Red paint	litre	40.00		rate only
		(c) Retro-reflective beads	kg	60.00		rate only
57.06		Setting out and premarking the lines (excluding traffic-island markings, lettering and symbols)	km	6		
5700		TOTAL CARRIED TO SUMMARY - SCHEDULE B				

COLTO	Labour Intensive	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
59.01		<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u> Finishing the road and road reserve: (b) Single-carriageway road:	km	4.50		
5900		TOTAL CARRIED TO SUMMARY - SCHEDULE B				0.00

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COLTO	EPWP	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
7300		SECTION 7300				
		CONCRETE BLOCK PAVING FOR ROADS				
73.01	LI	Concrete block paving - Class 25, type S-A, 80 mm thick, including all materials, bedding sand, laying, compacting and filling joints	m²	15 600		
73.02		Cast in situ concrete edge and intermediate beams	m³	60		
73.10	LI	Construction of concrete block paving speed humps as per detail drawing No. H14-010-D02	No	15		
TOTAL CARRIED FORWARD TO SUMMARY						

COLTO	Labour Intesive (LI)	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
8100		<u>TESTING MATERIALS AND WORKMANSHIP</u>				
81.02		Other special tests requested by the Engineer:				
		(a) Cost of testing	P/sum	1.00	200 000.00	200 000.00
		(b) Handling costs and profit in respect of subitem B81.02(a) above	%	200 000		
8100		TOTAL CARRIED TO SUMMARY				

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SECTION	DESCRIPTION	AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS	R
1300	CONTRACTORS ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	R
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL	R
1500	ACCOMMODATION OF TRAFFIC	R
1700	CLEARING AND GRUBBING	R
1800	DAYWORKS	R
2100	DRAINS	R
2200	PREFABRICATED CULVETS	R
2300	CONCRETE KERBING, CONCRETE CHANNELING, CHUTES AND DOWNPIPES, AND CONCRETE	R
3100	BORROW MATERIALS	R
3200	SELECTION, STOCKPILING AND BREAKING DOWN THE MATERIAL FROM EXISTING PAVEMENT LAYERS, AND PLACING AND COMPACTING THE GRAVEL LAYERS	R
3300	MASS EARTWORKS	R
3400	EARTHWORKS AND PAVEMENT LAYERS OF GRAVEL OR CRSHED STONES	R
3500	STABILIZATION	R
4200	ASPHALT BASE AND SURFACING	R
5100	PITCHING, STONWORK AND PROTECTION	
5200	GABIONS	R
5400	GUARDRAILS	R
5600	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:	R
5700	ROAD MARKINGS	R
5900	FINISHING THE ROAD AND ROAD RESERVE	R
7300	CONCRETE BLOCK PAVING	R
8100	TESTING MATERIALS AND WORKMANSHIP	R
	SUB-TOTAL 1	R
SUMMARY OF SCHEDULE OF QUANTITIES TOTAL		R
SUB-TOTAL 1		R
Add 10% Contingencies		R
SUB-TOTAL 2		R
Add 10% escalation		R
SUB-TOTAL 3		R
VALUE ADDED TAX (VAT) 15% :		R
VALUE TO BE ADDED TO THE FORM OF OFFER		R