

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	TENDER RATE	TENDER AMOUNT
<b>C1.2</b>	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
<b>C1.2.1</b>	<b>Environmental management</b>	month	18		
<b>C1.2.2</b>	<b>Programming and reporting</b>				
C1.2.2.6	Preparation and submission of all information and reports specified in the Contract Documentation	month	18		
<b>C1.2.5</b>	<b>Safety</b>				
C1.2.5.2	Implementation Health and safety plan	month	18		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.2.8</b>	<b><u>DAYWORKS</u></b>				
C1.2.8.1	Personnel				
	(a) Unskilled labour	h	150		
	(b) Semi-skilled labour	h	100		
	(c) Skilled labour	h	50		
	(d) Ganger	h	50		
	(e) Foreman	h	50		
C1.2.8.2	Equipment (contractor to specify)				
	(a) Front-end loaders, 1,9m³ (97kW)	h	50		
	(b) Pneumatic tyre rollers (20 ton)	h	50		
	(c) Tipper trucks				
	(i) 6m³	h	50		
	(ii) 10m³	h	50		
	(iii) 12m³	Rate only			
	(iv) 15m³	Rate only			
	(d) Water truck (5000 litre)	h	50		
	(e) TLB (CAT 416 or similar)	h	50		
	(f) Compressor plus two jackhammers and two paving breakers, including hoses	h	20		
	(g) Grader	Rate only			
	(h) Roller	Rate only			
	(i) 3 Roller	Rate only			
	(j) Chip spreader	Rate only			
	(k) Excavator	Rate only			
	(l) Re-cycler	Rate only			
	(m) Distributor	Rate only			
	(n) mechanical broom	Rate only			
	(o) Gang truck	Rate only			
	(p) Flatbed truck	Rate only			
	(q) Service truck	Rate only			
	(r) Diesel bowser	Rate only			
C1.2.8.3	Vehicles				
	(a) LDV (2000cc)	km	1 000		
	(b) Flatbed truck (5 ton)	km	1 000		
C1.2.8.4	Materials				
	(a) Procurement of materials	Prov Sum	1		
	(b) Contractor's handling cost, profit and all other charges in respect of subitem B18.03(a)	%			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.3</b>	<b><u>CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS</u></b>				
<b>C1.3.1</b>	Contractor's general obligations				
<b>C1.3.1.1</b>	Fixed obligations	L\Sum	1		
<b>C1.3.1.2</b>	Value-related obligations	L\Sum	1		
<b>C1.3.1.3</b>	Time-related obligations	month	18		
	NOTE:				
	If the combined tendered total for subitems (a), (b) and (c) exceeds 20% of the tender sum (excluding the contingent sum, CPA and VAT) the tenderer shall comply with requirements of Form U "CONTRACTOR'S ESTABLISHMENT ON SITE"				
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.4</b>	<b><u>FACILITIES FOR THE ENGINEER</u></b>				
<b>C1.4.1</b>	<b>Site accommodation</b>				
C1.4.1.1	Offices and Conference room	m <sup>2</sup>	10		
C1.4.1.2	Laboratories	m <sup>2</sup>	210		
C1.4.1.3	Open concrete working floors and verandas	m <sup>2</sup>	81		
C1.4.1.4	Roofs over open concrete working floors and verandas	m <sup>2</sup>	58		
C1.4.1.6	Car ports	No	15		
C1.4.1.7	(i)Ablution units (equipped as specified)	m <sup>2</sup>	20		
C1.4.1.7	(ii)Ablution unit (equipped as specified)	No	2		
C1.4.1.9	Kitchen unit (equipped as specified)	No	2		
C1.4.1.12	Type C prefabricated house (equipped as specified)	No. Pers.	8		
C1.4.1.13	(i)Rented housing paid for by the Contractor	Prov Sum	1		
C1.4.1.13	(ii)Rented housing paid for by the Contractor	Prov Sum	1		
C1.4.1.14	(i)Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13	%			
C1.4.1.14	(ii)Contractor's handling costs, profit and all other charges in respect of item C1.4.1.13	%	0		
	(b) Services for labourers' accommodation				
	(i) Fixed costs	L\Sum	1		
	(ii) Running costs	month	18		
B14.10	Provision of photostat facilities	month	18		
B14.12	Survey equipment	Prov Sum	1		
B14.13	Drone and training	Prov Sum	1		
<b>C1.4.3</b>	<b>Items measured by number</b>				
C1.4.3.2	Office chairs	No	15		
C1.4.3.3	Draughtsman's stools	No	1		
<b>TOTAL CARRIED FORWARD</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
C1.4.3.4	laboratory high chairs	No	10		
C1.4.3.5	Office desk with 3 drawers drawers (at least one lockable drawer)	No	12		
C1.4.3.7	Drawing tables	No	2		
C1.4.3.8	Conference tables	No	1		
C1.4.3.10	Filing cabinets	No	1		
C1.4.3.11	General purpose steel cabinet with shelves	No	3		
C1.4.3.12	Wall mounted pivot plan filing system	No	1		
C1.4.3.13	220/250 volt poweroutlet plug points	No	31		
C1.4.3.14	400/231 volt 3-phase power outlet plug points	No	7		
C1.4.3.15	Single 1500m, 58 watt florescent tube ceiling light	No	20		
C1.4.3.16	Single 1500mm, 22 watt LED tube ceiling light	No	6		
C1.4.3.19	Wash hand basin	No	13		
C1.4.3.20	Laboratory basin	No	2		
C1.4.3.21	Extractor fan	No	8		
C1.4.3.23	Fire extinguishers, 9,0 kg ,dry powder type	No	10		
C1.4.3.24	Air conditioning units	No	5		
C1.4.3.25	Heater	No			
	(xvi) Refrigerators (200 litre)	No	3		
C1.4.3.28	UPS/ Voltage stabilizers	No	10		
	(xx) Floodlights complete with poles and 500Watt minimum globes	No	4		
<b>C1.4.4</b>	<b>Prime-cost items</b>				
C1.4.4.1	Cell phones costs, including pro-rata rentals, for calls made in connection with contract administration	PC Sum	1		
C1.4.4.2	Handling cost and profit in respect of subitem C1.4.4.1	%			
C1.4.4.3	The provision of a direct independent telephone line for	PC Sum	1		
C1.4.4.4	Handling cost and profit in respect of subitem C1.4.4.3	%			
<b>TOTAL CARRIED FORWARD</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
C1.4.4.5	The provision of internet connectivity and WiFi data for Engineer's site staff	PC Sum	1		
C1.4.4.6	Handling cost and profit in respect of subitem C1.4.4.5	%			
C1.4.4.11	The provision of a complete 440/231 volt three phase	L\Sum	1		
C1.4.4.15	The provision of all gas installations required at the site	L\Sum	1		
<b>C1.4.2</b>	<b>Items measured by area</b>				
C1.4.2.1	Shelving as specified, complete with brackets	m <sup>2</sup>	15		
C1.4.2.2	Work benches with a concrete slab top	m <sup>2</sup>	15		
C1.4.2.5	Concrete footings and pedestals for laboratory equipment	m <sup>2</sup>	6		
C1.4.2.7	Venetian blinds	m <sup>2</sup>	10		
C1.4.2.8	Notice boards	m <sup>2</sup>	4		
<b>C1.4.5</b>	<b>Services at site offices, laboratories and site</b>				
C1.4.5.1	Fixed costs	L\Sum	1		
C1.4.5.2	Running costs	month	18		
<b>C1.4.7</b>	<b>Site inspection transport</b>				
C1.4.7.1	Provision of bus, mini-bus or combi van for site inspection	day	18		
<b>C1.4.8</b>	<b>Site security measures for the Engineer's facilities</b>				
C1.4.8.2	Provision of security guards / watchmen and an armed	month	18		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>1500</b>	<b><u>ACCOMMODATION OF TRAFFIC</u></b>				
B15.01	Accommodating traffic and maintaining temporary				
	(a) On MR 938 (only applicable if payment is not made under item B15.10)	km	42		
	(b) DR 3336	km	Rate only		
B15.02	Earthworks for temporary deviations				
	(a) Shaping of temporary deviations	km	42.0		
<b>C1.5.5</b>	<b>Maintetnace of temporary deviations</b>				
	(a) Temporary deviations	m³	200		
C1.5.5.9	Grading of temporary deviations and existing roads	km-pass	1 920		
C1.5.5.10	Watering of temporary deviations	kℓ	36 400		
B15.10	Accommodation of traffic where the road is constructed in half widths	km	4		
<b>C1.5.7</b>	<b>Temporary traffic-control facilities</b>				
C1.5.7.1	Delineators (TW 401 and TW 402)				
	(a) Single				
	(1) 800mm x 200mm	No	620		
	(2) 1200mm x 300mm	No			
	(b) Double sided blade				
	(1) 800mm x 200mm	No	800		
	(2) 1200mm x 300mm	No			
C1.5.7.2	Traffic cones (750mm high)	No	20		
C1.5.7.3	Flagmen	man-day	1 700		
C1.5.7.5	(a) Sign mounted flashing amber lights (2 lights with the	No	40		
	(b) Portable STOP and GO-RY signs	No	4		
	(d)Amber Flicker lights	No	5		
	(e) Road signs, R- and TR-series				
	(i) 900mm diameter	No	0		
	(ii) 1200mm diameter	No	20		
<b>TOTAL CARRIED FORWARD</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
	(d) Road signs, TW-series, with distance				
	(i) 1200mm sides	No	24		
	(ii) 1500mm sides	No	20		
	(iii) 1800mm sides	No	15		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	m <sup>2</sup>	20		
	(i) Moveable barricade/road sign combination (Chevron and ROAD CLOSED types)	No	6		
	(m) Two-way communication devices	No	6		
	(o) Road signs, TIN-series				
	(i) 1200mm x 400mm	No	30		
	(ii) 1800mm x 400mm	No	15		
	(iii) 1800mm x 600mm	No	2		
B15.11	Signalised traffic control devices				
	(a) Providing signalised traffic control devices	No	4		
	(b) Operating signalised traffic control devices	month device	6		
C1.5.8	Traffic safety officer	month	18		
C1.5.11	Provision of safety equipment for visitors				
C1.5.11.1	Provision of reflective safety vests for visitors	No	20		
C1.5.12	Additional traffic accommodation facilities ordered by				
C1.5.12.1	Provision of additional traffic accommodation facilities	Prov Sum	1		
C1.5.12.2	Handling cost, profit and all other charges in respect of item C1.5.12.1	%	0.00		
B15.17	Penalties				
	(a) Fixed penalty per occurrence	No	Rate Only		
	(b) Time related penalty	hour	Rate Only		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					



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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.6</b>	<b><u>CLEARING AND GRUBBING</u></b>				
C1.6.1 & C1.6.2	Clearing and grubbing	ha	5		
C1.6.3	Removal and grubbing of large trees and tree stumps				
C16.3.1	Girth exceeding 1m up to and including 2m	No	2		
C1.6.3.2	Girth exceeding 2m up to and including 3m	No	Rate Only		
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m <sup>2</sup>	200		
B17.07	Removal and temporary stockpiling of topsoil				
	(a) In temporary stockpiles after loading material into trucks including free-haul up to 1.0km	m <sup>3</sup>			
	(b) In windrows on the edges of borrowpits or spoil areas	m <sup>3</sup>			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.7</b>	<b><u>HAUL AND LOADING</u></b>				
C1.7/C3.3	(i)haul on material hauled in excess of 1.0km <b>(Item C3.3.16)</b>	m³-km	360		
C1.7/C4.2/ 5.1/5.2	(ii)haul on material hauled in excess of 1.0km <b>(Item C4.2.8 / C5.1.4 &amp; C5.2.2)</b>	m³-km	120 000		
C1.7/C5.3	(iii)haul on material hauled in excess of 1.0km <b>(Item C5.3)</b>	m³-km	2005223		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	TENDER RATE	TENDER AMOUNT
C2.1	<u>GENERAL REQUIREMENTS AND TRENCHING FOR</u>				
C2.1.1	Location, identification, protection and relocation of				
C2.1.1.2	Permanent services relocation or protection work by others	PC Sum	1		
C2.1.1.3	Handling cost and profit in respect of subitem C2.1.1.2	%			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C2.2</b>	<b>Dry Services</b>				
C2.2,1	Supply, lay and prove ducts				
C2.2.1.1	(b) Normal duty PVC pipe conforming to	m	24.00		
22.24	Duct marker blocks (as shown on	No	4.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C3.1</b>	<b><u>DRAINS</u></b>				
C3.1.1	Excavation for open drains				
C3.1.1.1	Excavating all material situated within the				
	(a) 0m up to 1.5m	m <sup>3</sup>	1 781		
	(b) Exceeding 1.5m and up to 3.0m	m <sup>3</sup>	300		
C3.1.1.2	Extra over subitem C3.1.1.1 for excavation in hard material, irrespective of depth	m <sup>3</sup>	100		
C3.1.2	Clearing, shaping and disposal of accumulated	m <sup>3</sup>	11 000		
C3.1.6	Construction of banks and dykes	m <sup>3</sup>	100		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C3.2</b>	<b><u>PREFABRICATED CULVERTS</u></b>				
<b>C3.2.1</b>	<b>Excavation for culvert structures</b>				
C3.2.1.1	Excavating in all material situated within the following				
	(a) 0m up to 1.5m	m <sup>3</sup>	50		
	(b) Exceeding 1.5m and up to 3.0m	m <sup>3</sup>	10		
C3.2.1.4	Extra over subitem C3.2.1.1 for excavation in hard	m <sup>3</sup>	Rate only		
	Extra over subitem 22.01(a) for excavation by hand	m <sup>3</sup>	Rate only		
<b>C3.2.2</b>	<b>Backfilling</b>				
C3.2.2.1	Using the excavated material	m <sup>3</sup>	50		
C3.2.2.2	Using imported selected material from commercial	m <sup>3</sup>	10		
C3.2.2.3	Extra over subitems C3.2.2.1 and C3.2.2.2 for	m <sup>3</sup>	60		
<b>C3.2.3</b>	<b>Concrete pipe culverts</b>				
C3.2.3.2	On Class B bedding (type and diameter indicated)				
	(i) 600mm dia Class 75D	m	34		
	(ii) 900mm dia Class 100D	m	5		
	(iii) 1 600 mm dia galvanised ARMCO pipe (Type Temporary culverts	m	20		
C3.2.3.2	Provision and laying of prefabricate culverts complete				
	(i) 600mm dia Class 75D pipe culverts	m	10		
	(c) Eventual removal of prefabricated culverts	m	10		
<b>C3.2.5</b>	<b>Rectangular culverts with prefabricated elements</b>				
C3.2.5.2	Prefabricated floor slabs (size and type indicated)				
	(i) 900mm x 450mm Type 175S	m	12		
	(ii) 900mm x 600mm Type 175S	m	Rate Only		
C3.2.6	Extra over items C3.2.3 and C3.2.5 for constructing	m	Rate Only		
<b>TOTAL CARRIED FORWARD</b>					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
<b>C3.2.7</b>	<b>Cast in situ concrete and formwork</b>				
C3.2.7.2	In complete in situ floor slabs for rectangular culverts, manholes and catchpits including formwork, joints and Class U2 surface finish (class of concrete indicated) (installed at a standard depth of 1,0 m)	m <sup>3</sup>	60		
C3.2.7.5	In inlet and outlet structures including kerbs, chutes and downpipes, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including Class U2 surfacing finish (class of concrete indicated)	m <sup>3</sup>	40		
C3.2.7.6	Formwork of concrete under items C3.2.7.5 above				
	(i) Vertical formwork for F1 surface finish	m <sup>2</sup>	350		
	(ii) Vertical formwork for F2 surface finish	m <sup>2</sup>	350		
C3.2.10	Reinforcement				
C3.2.10.1	Mild steel bars	t	Rate Only		
C3.2.10.2	High-tensile steel bars	t	6		
C3.2.10.3	Welded steel fabric	kg	200		
<b>C3.2.12</b>	<b>Demolition of concrete members or elements</b>				
	(a) Plain concrete	m <sup>3</sup>	5		
	(b) Reinforced concrete	m <sup>3</sup>	7		
	(c) Cutting existing concrete	m <sup>2</sup>	20		
<b>C3.2.13</b>	<b>Removing and stacking existing Culverts</b>				
C3.2.13.1	Removing and stacking existing culverts for re-use (size				
	(a) 450mm	m	30		
	(b) 600mm	m	30		
<b>C3.2.16</b>	<b>Brickwork (Engineering bricks)</b>				
C3.2.16.2	230mm thick	m <sup>2</sup>	25		
C3.2.16.3	345mm thick	m <sup>2</sup>	20		
<b>TOTAL CARRIED FORWARD</b>					

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<b>BROUGHT FORWARD</b>					
22.25	Overhaul on excavated material carted to spoil, backfill material (but excluding Portland cement in the case of soil cement), existing structures demolished and removed to spoil, and removing and relaying, and removing and stacking existing prefabricated culverts, for haul in excess of the free-haul distance	m³-km	500		
B22.27	Prefabricated concrete deck slabs for small				
	(a) 1210mm x 500mm	No	10		
	(a) 1360mm x 500mm	No	100		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					



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ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C3.3</b>	<b><u>CONCRETE KERBING, CONCRETE CHANNELLING.</u></b>				
<b>C3.3.2</b>	<b>Concrete kerbing-channelling combination (U2 surface finish on channel, Class 30/19 concrete)</b>				
C3.3.2.1	Prefabricated kerbing-channelling (description of type of channel and bedding with reference to drawing)	m	850		
23.05	Inlet, outlet, transition and similar structures (typical designs)				
	(a) Inlet structures on high fills complete as shown on drawings	No	8		
	(b) Outlet structures for pipe chutes on high fills complete as shown on drawings	No	8		
C3.3.14	Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling or concrete-lined drains				
	(a) Not exceeding 50mm	m	150		
C3.3.16	Demolition and removal of existing kerbs and/or channel, concrete lined drains (maximum size 300mm)	m	200		
B23.17	Concrete edge beams, Class 30/19 concrete (200mm wide x 200mm deep)	m	1 800		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C4.1</b>	<b><u>BORROW MATERIALS</u></b>				
33/B31.01	Excess overburden	m <sup>3</sup>	10 000		
<b>C4.1.4</b>	<b>Removing of the overburden</b>				
	(a) Soft material	ha	12		
	(b) Hard material	ha	1		
<b>C4.1.5</b>	<b>Excavating of materials in the borrow pits and quarries, material obtained from where crushing and screening is not required)</b>				
C4.1.5.4	Hard excavation (other than by blasting)	m <sup>3</sup>	Rate only		
<b>C4.1.6</b>	<b>Providing crushing, screening and related plants</b>				
C4.1.6.3	Multiple-stage crushing and screening plant	No	1		
<b>C4.1.8</b>	<b>Moving and re-erecting the crushing, screening and related plants on the site</b>				
C4.1.8.3	Multiple-stage crushing and screening plant	No	1		
<b>C4.1.20</b>	<b>Producing the material by</b>				
C4.1.20.2	Multiple-stage crushing and screening				
	(i) Subbase ( <b>BIF</b> )	m <sup>3</sup>	45 000		
	(ii) Base ( <b>BIF</b> )	m <sup>3</sup>	25 000		
	(iii) Shoulder ( <b>Calcrete</b> )	m <sup>3</sup>	12 000		
34/32.05	Additional normal grid rolling	m <sup>3</sup>			
<b>C4.1.21</b>	<b>Stockpiling the crushed material</b>	m <sup>3</sup>			
34/B32.07	Compliance with Health & Safety and other requirements from the mines				
	(c) Kudemane Mine	L\Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C4.2</b>	<b><u>CUT MATERIALS</u></b>				
<b>C4.2.8</b>	<b>Excavate material to spoil sites designated by</b>				
C4.2.8.1	Soft excavation, overburden and unsuitable material.	m <sup>3</sup>	Rate only		
C4.2.8.3	Boulder excavation class B	m <sup>3</sup>	Rate only		
C4.2.8.4	Hard excavation	m <sup>3</sup>	Rate only		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
C4.4	<u>COMMERCIAL MATERIALS</u>				
C4.4.2	Commercial materials identified by the Contractor				
C4.4.2.6	Pioneer material	m <sup>3</sup>	Rate only		
TOTAL CARRIED FORWARD TO SUMMARY					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C5.1</b>	<b><u>ROADBED</u></b>				
<b>C5.1.2</b>	<b>Excavate material to spoil sites designated by the</b>				
C5.1.2.1	Excavate material to spoil from roadbedconstruction,using				
	(a) Soft excavation	m <sup>3</sup>			
	(b) Intermediate excavation				
	(e) Boulder excavation class B	m <sup>3</sup>			
<b>C5.1.4</b>	<b>Removal of unsuitable material to spoil</b>				
C5.1.4.2	In layer thicknesses exceeding 200mm	m <sup>3</sup>	1 500		
<b>C5.1.6</b>	<b>Roller-pass compaction</b>				
C5.1.6.1	Grid roller	m <sup>2</sup>	Rate only		
C5.1.6.4	Vibratory rollers	m <sup>2</sup>	1 000		
C5.1.6.6	Pneumatic-tyred rollers	m <sup>2</sup>			
<b>C5.1.13</b>	<b>Construction of a levelling layer</b>				
C5.1.13.1	Over roadbed treatment in hard material compaction to	m <sup>3</sup>	620		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C5.2</b>	<b><u>FILL</u></b>				
C5.2.2	Fill construction				
C5.2.2.1	Normal fill Material in compacted layer				
	(b) Compacted to 93% of MDD	m <sup>3</sup>	2 000		
C5.2.11	Finishing-off fill slopes, medians				
C5.2.11.1	Fill slopes	m <sup>2</sup>	50 000		
C5.2.11.2	Medians and interchange areas	m <sup>2</sup>	50 000		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C5.3</b>	<b><u>ROAD PAVEMENT LAYERS</u></b>				
<b>C5.3.2</b>	<b>Construction of pavement layers</b>				
C5.3.2.1	Construction of layers using conventional construction				
	(b) (i) 150mm Lower selected subgrade layer (layer thickness indicated) compacted to 95 % of MDD	m <sup>3</sup>	25 000		
	(ii) 150mm Selected layer compacted to 95% of maximum dry density	m <sup>3</sup>			
	(h) 150mm Gravel shoulder layer (layer thickness	m <sup>3</sup>	36 000		
	(i) 98% of maximum dry density (200mm compacted	m <sup>3</sup>	1 200		
	(k) (i) The 225mm Subbase gravel (unstabilised) shall be constructed as one layer, but tested as two layers with the following density specifications:	m <sup>3</sup>	24 000		
	- Upper 110mm: Compacted to 97% of				
	- Lower 115mm: Compacted to 97% of				
	(k) (ii) The 250mm Subbase gravel (unstabilised) shall be constructed as one layer, but tested as two layers with the following density specifications:	m <sup>3</sup>	5 000		
	- Upper 125mm: Compacted to 97% of				
	- Lower 125mm: Compacted to 97% of				
	(k)(iii) The 275mm Subbase gravel (unstabilised) shall be constructed as one layer, but tested as two layers with the following density specifications:	m <sup>3</sup>	12 300		
	- Upper 135mm: Compacted to 97% of				
	- Lower 140mm: Compacted to 97% of				
	(m) (i) Gravel base layer (unstabilised), (layer thickness				
	(ii) 150mm Base layer (G5, unstabilized) compacted to 100% of maximum dry density	m <sup>3</sup>	10 350		
	(n) 150mm Gravel base layer (chemically stabilised),	m <sup>3</sup>	20 000		
	(g) 150mm Gravel wearing course layer (layer thickness	m <sup>3</sup>	600		
<b>TOTAL CARRIED FORWARD</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
C5.3.2.2	Construction of layers using labour enhancement:				
	(b) Gravel selected layer compacted to	m <sup>3</sup>			
	(i) Gravel base compacted to 98% of maximum dry				
	(i) Non-cemented material (150mm thickness)	m <sup>3</sup>	33 000		
B34.03	Pavement layers constructed from gravel				
	(b) Gravel selected layer compacted to 95%				
	(i) Non-cemented material (compacted layer	m <sup>3</sup>			
<b>TOTAL CARRIED FORWARD</b>					



**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
34.06	Extra over item 34.04 for adding extra material as specified in subclause 3207(b)(iii)				
	(a) Gravel selected layer	m <sup>3</sup>	10 000		
15/34.06	Extra over item 34.04 for adding extra material as specified in subclause 3207(b)(iii)				
	(a) Gravel selected layer	m <sup>3</sup>	300		
	(b) Gravel base layer	m <sup>3</sup>	300		
B34.10	Compacting the floors of pavement excavations (5 roller				
	(a) Vibratory rollers	m <sup>2</sup>	10 000		
	(e) Pneumatic-tyred rollers	m <sup>2</sup>	10 000		
B34.14	(a) 150mm uncrushed Selected layer compacted to 95% of maximum dry density	m <sup>3</sup>	Rate only		
	(b) 300mm uncrushed Selected layer compacted to 95%	m <sup>3</sup>			
	The 300mm layer shall be constructed as				
	- Upper 150mm: Compacted to 97% of				
	- Lower 150mm: Compacted to 97% of				
B34.15	Pavement layers constructed from gravel obtained from				
	(a) 150mm uncrushed Selected layer compacted to 95%	m <sup>3</sup>			
	(b) Subbase layer crushed (chemically stabilized layer)				
	(i) The 225mm layer shall be constructed as	m <sup>3</sup>			
	- Upper 100mm: Compacted to 97% of				
	- Lower 125mm: Compacted to 97% of				
	(ii) The 250mm layer shall be constructed as	m <sup>3</sup>	3 100		
	- Upper 125mm: Compacted to 97% of maximum dry				
	- Lower 125mm: Compacted to 97% of maximum dry				
	(iii) The 275mm layer shall be constructed as one layer,	m <sup>3</sup>	3 100		
	- Upper 125mm: Compacted to 97% of maximum				
	- Upper 125mm: Compacted to 97% of maximum				
	- Lower 150mm: Compacted to 97% of maximum dry				
	(c) 150mm Base layer crushed (chemically stabilized)	m <sup>3</sup>	6 100		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C5.4</b>	<b><u>STABILIZATION</u></b>				
<b>C5.4.2</b>	<b>Chemical stabilisation</b>				
C5.4.2.1	Chemical stabilisation (layer thickness indicated)				
	(a) Subbase	m <sup>3</sup>	45 000		
	(b) Base	m <sup>3</sup>	40 000		
<b>C5.4.5</b>	<b>Cementitious stabilisation agents for pavement</b>				
C5.4.5.1	Cement (for pavement layer)				
	(i) CEM II 32.5 B-L	t	6 000		
C5.4.5.2	And so forth for other agents (for pavement layers)	t	2 000		
<b>C5.4.10</b>	Provision and application of water for curing	kℓ	640		
<b>C5.4.11</b>	Curing by covering with the subsequent layer	m <sup>2</sup>	117 809		
<b>C5.4.14</b>	Trial section for a chemically stabilised layer				
	(a) Subbase	m <sup>3</sup>	500		
	(b) Base	m <sup>3</sup>	300		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C5.5</b>	<b><u>RECONSTRUCTION OF PAVEMENT</u></b>				
C5.5.9	Temporarily blading layer material to windrow	m <sup>3</sup>			
C5.5.10	Roller-pass compaction of an exposed				
C5.5.10.2	Vibratory rollers	m <sup>2</sup> -pass	Rate Only		
C5.5.10.3	Pneumatic-tyred rollers	m <sup>2</sup> -pass	Rate Only		
C5.5.10.4	Grid rollers	m <sup>2</sup> -pass	Rate Only		
C5.5.11	Watering the exposed pavement layer	kℓ	500		
C5.5.14	In-situ reconstruction of a pavement layer				
C5.5.14.1	Chemically stabilised selected layer				
	(a) Non-cemented material (compacted layer thickness of 200mm)	m <sup>3</sup>	19 840		
	(b) Cemented material (compacted	m <sup>3</sup>	5 600		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
C8.1	<b><u>PRIME COAT</u></b>				
C8.1.1	Prime coat				
C8.1.1.2	MC-30 cut-back bitumen	ℓ	169 045		
C8.1.1.3	Invert bitumen emulsion	ℓ	81 056		
	(f) Emulsion-base prime	ℓ	Rate Only		
C8.1.2	Aggregate for blinding	m <sup>2</sup>			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C8.3.1</b>	<b><u>Texture treatment</u></b>				
C8.3.1.1	Slurry applied by hand	m <sup>3</sup>	Rate Only		
C8.3.1.2	Application of slurry for texture improvement,	m <sup>3</sup>	90		
C8.3.1.3	Application of microsurfacing for texture	litre	20 700		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C8.8</b>	<b><u>PATCHING AND EDGE BREAK REPAIR</u></b>				
C8.8.1	Saw cutting pavement layers for patching				
C8.8.1.1	Asphalt or bituminous surfacing to an average depth				
	(a) Not exceeding 50mm	m <sup>2</sup>	350		
	(b) Exceeding 50mm but not exceeding 100mm	m <sup>2</sup>	600		
	(c) Exceeding 100mm	m <sup>2</sup>	450		
C8.8.2	Excavation in existing pavements for patching in				
C8.8.2.1	Asphalt layers	m <sup>3</sup>			
C8.8.2.2	Cemented layers	m <sup>3</sup>	90		
C8.8.2.3	Other layers (specify type)	m <sup>3</sup>	315		
C8.8.3	Compacting the floor of excavations for patching (specify density)	m <sup>2</sup>	600		
C8.8.4	Backfilling of excavations for patching with				
C8.8.4.3	Asphalt for a patch with a surface area (state type and density)	t	500		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C9.1</b>	<b><u>ASPHALT BASE AND SURFACING</u></b>				
C9.1.2.1	Trial sections				
	(a) 40mm nominal thickness	m <sup>2</sup>	300		
C9.1.3.1	Tack coat of 30% stable-grade emulsion	ℓ	9 626		
C9.1.5	Asphalt surfacing at intersections				
	(d) Continuously medium graded asphalt,				
	(i) 40mm nominal thickness	m <sup>2</sup>	24 065		
C9.1.9	Rolled-in chippings (nominal size 14mm) in	t	140		
C9.1.10.2	Aggregate variations	t	6		
C9.1.10.3	Variations in active filler content				
	Lime	t	0.7		
C9.1.13.1	100mm cores in asphalt paving	No	30		
42.05	Binder variations (A-E2 binder)	t	15		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

## NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

## MAIN ROAD 938

## THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

## SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C10.1</b>	<b><u>GENERAL REQUIREMENTS FOR SURFACE</u></b>				
<b>C10.1.3</b>	<b>Multiple stone seals including a cover spray, if</b>				
C10.1.3.1	20mm and 10mm aggregate				
	(i) 70% polymer modified cationic spray grade emulsion of Class SC-E2(70-73)(T)	m <sup>2</sup>	50 000		
	(ii) Hot applied polymer modified	m <sup>2</sup>	243 209		
<b>C10.1.9</b>	<b>Bituminous binder variations</b>				
C10.1.9.1	70/100 Penetration grade bitumen	litre	Rate Only		
C10.1.9.2	60 % Stable-grade emulsion	litre	Rate Only		
C10.1.9.4	Cationic Spray-grade emulsion (indicate bitumen content)	ℓ	5 000		
C10.1.9.7	Homogeneous modified binder (indicate type) hot applied	ℓ	28 000		
C10.1.9.11	Precoating fluid (state type)				
	(i) 20mm aggregate	ℓ	3 000		
	(ii) 10mm aggregate	ℓ	3 000		
<b>C10.1.10</b>	<b>Aggregate variation</b>				
C10.1.10.3	10mm aggregate	m <sup>3</sup>	250		
C10.1.10.4	14mm aggregate.	m <sup>3</sup>	Rate Only		
C10.1.10.5	20mm aggregate	m <sup>3</sup>	450		
<b>C10.1.11</b>	<b>Application of cover spray</b>				
C10.1.11.3	Diluted Cationic spray-grade emulsion (30% bitumen and	ℓ	202 568		
C10.1.9.11	Precoating aggregate				
	(a) 20mm aggregate	m <sup>3</sup>	4 800		
	(d) 10mm aggregate	m <sup>3</sup>	2 450		
<b>C10.1.22</b>	<b>Bituminous single seal and slurry, including a cover spray if specified:</b>				
C10.1.22.2	Bituminous single seal with 14 mm aggregate and slurry with tack coat(Hot applied 70/100 penetration grade bitumen binder and Anionic stable grade emulsion (SS60 for slurry).	m <sup>2</sup>	69 000		
C10.1.24	Variation in the rate of application of the fine slurry:				
C10.1.24.1	Fine grade	m <sup>3</sup>	Rate Only		
C10.1.24.2	Medium grade	m <sup>3</sup>	Rate Only		
C10.1.25	Variation in active filler content (specify active filler)				
	(a) CEM II32.5N	t	Rate Only		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					



NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.4</b>	<b><u>GUARDRAILS</u></b>				
C11.4.1	Guardrails on 3.81m spaced timber posts				
C11.4.1.1	Complete galvanised system on timber posts	m	200		
	(d) Extra over C11.4.1.1(a) for the following				
C11.4.1.2	(e) End treatments where double guardrail sections are	No	10		
C11.4.6	Reflective plates	No	60		
C11.4.7	Removing existing guardrails	m	Rate Only		
C11.4.14	Nailing of gang nail plates on top of timber	No	60		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
C11.1	<b><u>PITCHING, STONWORK AND PROTECTION</u></b>				
C11.1.2	Stone pitching				
C11.1.2.2/C1	Grouted stone pitching	m <sup>2</sup>	600		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.5</b>	<b><u>FENCING</u></b>				
55.01	Clearing the fence line, 2m wide strip	km	5		
C11.5.1	Supply and erect new fencing material for new fences and for supplementing material in existing fences which are being repaired or removed				
C11.5.1.1	Zinc-coated barbed wire (SANS 675)				
	(i) High-tensile-grade, single-strand 3.2mm x 2.5mm oval-shaped wire	km	25		
C11.5.1.7	Standards				
	(i) 1850mm x 2.5kg/m "Y" section complete with holes at 50m and complying with CKS 82	No	270		
C11.5.1.8	Droppers				
	(i) 1400mm x 0.56kg/m ridgeback pattern and complying with CKS 82	No	800		
C11.5.1.9	Straining posts, stays and anchors				
	(a) Vertical				
	(i) Steel straining posts (2130mm x 100mm dia x 3mm mild steel tubing with steel cap and 230mm x 30mm x 3mm base plate, fully galvanized (SANS 121/IS1461), without holes for wires and complying with CKS 82)	No	45		
C11.5.2	New gates				
	(a) Single leaf				
	(i) 3.6m x 1.2m government pattern farm gate manufactured from 42.9mm dia x 2.6mm steel tubing with hinges, washers, bolts and locking chain attached to gate (complying with CKS 146) all fully galvanised (SANS 121 / ISO 1461)	No	4		
C11.5.4	Dismantling existing fences				
C11.5.4.1	Fences				
	(a) Stock-proof fences	km	3		
C11.5.4.2	Gates	No	3		
C11.5.6	Ringbolts for anchoring fencing to structures	No	Rate Only		
C11.5.9	Repairing existing fence	km	25		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.6</b>	<b><u>ROAD SIGNS</u></b>				
C11.6.1	Road sign boards with painted or coloured semi-matt				
C11.6.1.1	Prepainted galvanized steel plate (chromadek 1.4mm thick				
	(b) Area not exceeding 2m <sup>2</sup>	m <sup>2</sup>	45		
C11.6.1.4	Prepainted galvanized steel profile (200mm high				
	(a) Area not exceeding 2m <sup>2</sup>	m <sup>2</sup>	15		
	(b) Area exceeding 2m <sup>2</sup> but not 10m <sup>2</sup>	m <sup>2</sup>	23		
	(c) Area exceeding 10m <sup>2</sup>	m <sup>2</sup>	Rate Only		
C11.6.2	Extra over item C11.6.1.1 and C11.6.1.4 for using				
C11.6.2.1	Background of retro-reflective material				
	(a) Class I	m <sup>2</sup>	83		
C11.6.2.2	Lettering, symbols, numbers, arrows, emblems and				
	(a) Class III	m <sup>2</sup>	83		
C11.6.3	Road sign supports (overhead road sign				
C11.6.3.2	Timber				
	(i) 150mm top dia	m	370		
	(ii) 175mm top dia	m	225		
C11.6.5	Excavation and backfilling for road sign	m <sup>3</sup>	50		
C11.6.5.3	Extra over item C11.6.5 for cement-treated	m <sup>3</sup>	50		
C11.6.5.4	Extra over item C11.6.5 for rock excavation	m <sup>3</sup>	5		
<b>TOTAL CARRIED FORWARD</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
C11.6.6	Dismantling, storing and re-erecting road				
C11.6.6.1	Up to 2m <sup>2</sup>	No	25		
C11.6.6.2	Exceeding 2m <sup>2</sup> but not 10m <sup>2</sup>	No	10		
C11.6.6.3	Exceeding 10m <sup>2</sup>	No	3		
C11.6.7.1	Dismantling and storing road signs with a				
	(b) Up to 2m <sup>2</sup>	No	1		
	(c) Exceeding 2m <sup>2</sup> but not 10m <sup>2</sup>	No	2		
	(d) Exceeding 10m <sup>2</sup>	No	1		
C11.6.8	Danger plates at culverts/structures complete	No	268		
B56.11	Provide and erect kilometer reference marker	No	42		
B56.12	Provide and erect reference marker boards on the				
	(a) Culvert drainage markers	No	72		
	(b) Barrier line markers	No	3		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.7</b>	<b><u>ROAD MARKINGS</u></b>				
C11.7.2	(1)Retro-reflective road-marking paint				
	(a) White lines (broken or unbroken)				
	(i) 100mm wide	km	15		
	(ii) 200mm wide	km	Rate only		
C11.7.2	Retro-reflective road-marking paint				
C11.7.2.1	White lines (broken or unbroken)				
	(i) 100 mm wide	km	22		
	(ii) 150mm wide	km	Rate Only		
C.11.7.4	Yellow lines (broken or unbroken)				
	(i) 100mm wide	km	Rate Only		
	(ii) 150mm wide	km	86		
C11.7.4	White lettering and symbols	m <sup>2</sup>	530		
C11.7.5	Yellow lettering and symbols	m <sup>2</sup>	220		
C11.7.7	Transverse lines, painted island and arrestor bed markings	m <sup>2</sup>	900		
C11.7.5	Variations in rate of application				
C11.7.5.1	White paint	ℓ			
C11.7.5.2	Yellow paint	ℓ			
C11.7.5.3	Red paint	ℓ			
C11.7.5.4	Retro-reflective beads	kg			
B57.05	Roadstuds (installation and maintenance)				
	(a) Bi-directional				
	(i) Double sided red/red, Class RSA-2 roadstuds with shank, complying to EN-1463 standard	No	180		
	(Tenderer to indicate type )				
	(ii) Double sided yellow/red, Class RSA-2 roadstuds with shank, complying to EN-1463 standard	No	3 650		
	(Tenderer to indicate type				
<b>TOTAL CARRIED FORWARD</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
	(iii) Double sided white/red, Class RSA-2 roadstuds with shank, complying to EN-1463 standard	No	100		
	(Tenderer to indicate type )				
	(iv) Double sided white/white, Class RSA-2 roadstuds with shank, complying to EN-1463 standard	No	1 700		
	(Tenderer to indicate type )				
C11.7.8	(1)Setting out and pre-marking the lines (excluding traffic island markings, lettering and symbols)	km	131		
	(2)Setting out and premarking the lines (excluding	km	15		
57.07	Re-establishing the painting unit at the end of the maintenance period	L/Sum	1		
C11.7.9	Re-establishing the painting unit on instruction of the engineer during the construction period	No	10		
15/B57.12	Temporary roadstuds (plastic red/red)	No	150		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20)MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.8</b>	<b><u>LANDSCAPING AND PLANTING PLANTS</u></b>				
C11.8.1	Trimming				
C11.8.1.1	Machine trimming	m <sup>2</sup>	2 000		
C11.8.1.2	Hand trimming	m <sup>2</sup>	2 000		
C11.8.3	Preparing the areas for grassing				
C11.8.3.3	Topsoiling within the road reserve where the following				
	(a) Topsoil obtained from within the road reserve or borrow	m <sup>3</sup>	10 000		
	(b)Topsoil obtained from commercial sources by the	m <sup>3</sup>	1 500		
C11.8.12	Removal of undesirable vegetation	km	2		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					



NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C11.9</b>	<b><u>FINISHING THE ROAD AND ROAD RESERVE</u></b>				
C119.1	Finishing the road and road reserve				
C11.9.1.2	Single carriageway road	km	44		
C11.9.2	Treatment of old roads and	km	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C20.1</b>	<b><u>TESTING MATERIALS AND WORKMANSHIP</u></b>				
<b>C20.1.2</b>	<b>Special tests requested by the Engineer</b>				
C20.1.2.2	Employer's contribution to other special tests				
	(a) Cost of testing	Prov Sum	1.00		
	(i) Handling cost and profit in respect of subitem C20.1.2.2 (a)	%			
C20.1.5	Financial contribution for combined laboratory (Negative rate to be tendered)	month	18.00		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>D1000</b>	<b><u>MENTORING AND ASSISTANCE</u></b>				
D10.01	Targeted Group Participation				
	(a) Contract Participation Performance bonus.	Prov Sum	1		
	(b) Handling cost and profit in respect of subitem D10.01(a)	%			
D10.02	Training				
	(a) Cost of Liaison, social facilitation and PLC support	PC Sum	1		
	(b) Handling cost and profit in respect of subitem D10.02(a)	%			
D10.03	Tender Process for Targeted Enterprise				
	(a) Contractor's charge for the management and execution of the Targeted enterprise procurement process.				
	(i) Procurement for the totality of all tenders concluded for the appointment of Targeted enterprise subcontractors of CIDB 1 and 2 contractor grading	No	10		
	(ii) Procurement for the totality of all tenders concluded for the appointment of Targeted enterprise subcontractors of CIDB 3 and 4 contractor grading	No	10		
	(iii) Procurement for the totality of all tenders concluded for the appointment of Targeted enterprise subcontractors of CIDB 5 and higher contractor grading	No	5		
	(iv) Procurement for the totality of all tenders concluded for the appointment of Targeted enterprise suppliers.	No	5		
	(b) Targeted Enterprise Procurement Coordinator	month	18		
D10.04	Responsibilities of the Contractor towards Targeted Enterprises.				
	(a) Contractor's establishment, management , management support, assistance, coaching, guidance, mentoring and supervision of targeted enterprises.	month	18		
	(b) Targeted Enterprise Construction Manager.	Person / month	75		
	(c) Targeted Enterprise Site Supervisor.	Person / month	75		
D10.05	Construction works by Targeted Enterprises.				
	(a) Payments associated with the construction works carried out by Targeted Enterprises Subcontractors of CIDB 1 and 2 Contractor grading designation appointed in terms of Section D.	Prov Sum	1		
<b>TOTAL CARRIED FORWARD</b>					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATWAN ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
	(b) Handling cost and profit in respect of payment associated with subitem D10.05(a)	%			
	(c) Flactuation between the main contractors rate and that of the Targeted Enterprise subcontractors.	L/Sum	1		
	(d) Preliminary and General Oblingations of Targeted Enterprise sub-contractors appointed in terms of Section D.	L/Sum	1		
D10.06	Training, coaching, guidance, mentoring and assistance				
	(a) Training Cost				
	(i) Accredited NQF training	Prov Sum	1		
	(ii) Accredited genric skills training.	Prov Sum	1		
	(iii) Community skills training	Prov Sum	1		
	(iv) Handling cost and profit in respect of payment associated with subitem D10.06(a)(i), (ii) and (iii)	%	0		
	(b) Student experiential training				
	(i) Student stipends	Prov Sum	1		
	(i) Provision of experiential training	Person / month	18		
	(d) Training Value	L/Sum	1		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
C1.2.5	Safety				
C1.2.5.1	Health and safety plan	L\Sum	1		
C1.2.5.2	Implementation of health and safety plan	month	1		
C1.2.5.2	Implementation Health and safety plan	L\Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATWAN ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.2.8</b>	<b><u>DAYWORKS</u></b>				
C1.2.8.1	Personnel				
	(a) Unskilled labour	h	828		
	(b) Semi-skilled labour	h	828		
	(c) Skilled labour	h	0		
	(d) Ganger	h	0		
	(e) Foreman	h	207		
C1.2.8.2	Equipment (contractor to specify)				
	(a) Front-end loaders, 1,9m³ (97kW)	h	50		
	(b) Pneumatic tyre rollers (20 ton)	h	50		
	(c) Tipper trucks				
	(i) 6m³	h	50		
	(ii) 10m³	h	50		
	(d) Water truck (18000 litre)	h	50		
	(e) TLB (CAT 416 or similar)	h	50		
	(f) Compressor plus two jackhammers and two paving breakers, including hoses	h	20		
	(g) Grader		Rate only		
	(h) Roller		Rate only		
	(i) 3 Roller		Rate only		
	(j) Chip spreader		Rate only		
	(k) Excavator		Rate only		
	(l) Re-cycler		Rate only		
	(m) Distributor		Rate only		
	(n) mechanical broom		Rate only		
	(o) Gang truck		Rate only		
	(p) Flatbed truck		Rate only		
	(q) Service truck		Rate only		
	(r) Diesel bowser		Rate only		
C1.2.8.3	Vehicles				
	(a) LDV (2000cc)	km	1 000		
	(b) Flatbed truck (5 ton)	km	1 000		
C1.2.8.4	Materials				
	(a) Procurement of materials	Prov Sum	1		
	(b) Contractor's handling cost, profit and all other charges in respect of subitem C1.2.8.4(a)	%			
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.3</b>	<b><u>CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL</u></b>				
<b>C1.3.1</b>	<b>Contractor's general obligations</b>				
<b>C1.3.1.1</b>	Fixed obligations	L/Sum	1		
<b>C1.3.1.3</b>	Time-related obligations	month	6		
	NOTE:				
	If the combined tendered total for subitems (a), (b) and (c) exceeds				
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20B MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C1.5</b>	<b><u>ACCOMMODATION OF TRAFFIC</u></b>				
<b>C1.5.5</b>	<b>Maintenance of temporary deviations</b>				
<b>C1.5.5.10</b>	Watering of temporary deviations	kℓ	9936		
<b>C1.5.5.9</b>	Grading of temporary deviations and existing roads	km-pass	32		
<b>B15.02</b>	<b>Earthworks for temporary deviations</b>				
	(a) Shaping of temporary deviations	km	45.0		
<b>C1.5.7</b>	<b>Temporary traffic-control facilities</b>				
<b>C1.5.7.1</b>	Delineators (TW 401 and TW 402)				
	(a) Single				
	(1) 800mm x 200mm	No	780		
	(b) Double sided blade				
	(1) 800mm x 200mm	No	780		
<b>C1.5.7.3</b>	Flagmen	man-day	2 208		
	(b) Portable STOP and GO-RY signs	No	2		
	(d)Amber Flicker lights	No	4		
<b>C1.5.7.5</b>	(a) Sign mounted flashing amber lights (2 lights with the	No	20		
<b>C1.5.7.6</b>	(c) Road signs, R- and TR-series				
	(i) 900mm diameter	No	20		
	(ii) 1200mm diameter	No	20		
<b>C1.5.7.6</b>	(d) Road signs, TW-series, with distance				
	(i) 1200mm sides	No	24		
	(ii) 1500mm sides	No	20		
	(iii) 1800mm sides	No	15		
	(g) Road signs, STW-, DTG-, TGS- AND TG-series (excluding delineators and barricades)	m²	20		
<b>TOTAL CARRIED FORWARD</b>					



**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>BROUGHT FORWARD</b>					
	(i) Moveable barricade/road sign combination (Chevron and ROAD CLOSED types)	No	6		
	(n) Other traffic control measures ordered				
	(i) Provision of other traffic control measures	Prov Sum	1		
	(ii) Handling cost and profit in respect of subitem B15.03(n)(i)	%			
	(o) Road signs, TIN-series				
	(i) 1200mm x 400mm	No	30		
	(ii) 1800mm x 400mm	No	15		
	(iii) 1800mm x 600mm	No	2		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C8.1</b>	<b><u>PRIME COAT</u></b>				
C8.1.2	QDP Prime	ℓ	Rate only		
C8.1.2	Aggregate for blinding	m²	Rate only		
C8.1.3	Extra over item C8.1.1 for applying the prime coat accessible	ℓ	Rate only		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

MAIN ROAD 938

THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20)MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C8.3</b>	<b><u>TEXTURE TREATMENT</u></b>				
<b>C8.3.1</b>	<b>Texture treatment</b>				
C8.3.1.1	Slurry applied by hand	m <sup>2</sup>	73 500	Rate only	
	Slurry applied by hand.	m <sup>3</sup>	515	Rate only	
C8.3.1.2	Application of slurry for texture improvement, applied by spreader box (Indicate aggregate grade, type of emulsion, filler type)	m <sup>2</sup>	73 500	Rate only	
	Slurry applied by spreader box.	m <sup>3</sup>	515		
C8.3.1.3	Application of microsurfacing for texture improvement, applied by spreader box (Indicate aggregate grade, type of emulsion, filler type)	ℓ	1	Rate only	
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

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THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
<b>C8.8</b>	<b><u>PATCHING AND EDGE BREAK REPAIR</u></b>				
<b>C8.8.1</b>	<b>Saw cutting pavement layers for patching</b>				
C8.8.1.1	Asphalt or bituminous surfacing to an average depth				
	(a) Not exceeding 50mm	m <sup>2</sup>	158		
	(c) Exceeding 100mm	m <sup>2</sup>	1 239		
<b>C8.8.2</b>	<b>Excavation in existing pavements for patching in</b>				
C.8.8.2.2	Cemented layers	m <sup>3</sup>	158		
C.8.8.2.3	Other layers (specify type)	m <sup>3</sup>	315		
<b>C8.8.3</b>	<b>Compacting the floor of excavations for patching (specify density)</b>	m <sup>2</sup>	1 239		
<b>C8.8.4</b>	<b>Backfilling of excavations for patching with</b>				
C8.8.4.3	Asphalt for a patch with a surface area (state type and density)	t	80		
	<b><u>CONSTRUCTION OF TEMPORARY BY-PASS</u></b>				
	<b><u>POLYMER MATERIALS</u></b>				
<b>15/34.01</b>	(a) Supply of soil tech product.	m <sup>2</sup>	122,500		
	(b) Rip, shape and compact existing bypass road and process	m <sup>2</sup>	122500		
<b>TOTAL CARRIED FORWARD TO SUMMARY</b>					

NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS

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THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD

SCHEDULE A : ROADWORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
C10.1	<u>GENERAL REQUIREMENTS FOR SURFACE TREATMENTS</u>				
C10.1.9	Bituminous binder variations				
C10.1.9.2	60 % Stable-grade emulsion	ℓ	Rate only		
C10.1.24	Variation in the rate of application of the fine slurry	m <sup>3</sup>	Rate only		
TOTAL CARRIED FORWARD TO SUMMARY					

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**  
**MAIN ROAD 938**  
**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km**  
**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	TENDER AMOUNT
C1.2	GENERAL REQUIREMENTS AND PROVISIONS	
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	
C1.5	ACCOMMODATION OF TRAFFIC	
C8.1	PRIME COAT	
C8.3	TEXTURE TREATMENT	
C8.8	PATCHING AND EDGE BREAK REPAIR	
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENTS	
	<b>TOTAL BYPASS</b>	

**NORTHERN CAPE PROVINCE: DEPARTMENT OF ROADS AND PUBLIC WORKS**

**MAIN ROAD 938**

**THE REHABILITATION OF MR938 BETWEEN MR884 (km 18.37) AND TR5/5 (km 60.20) MAMATHWANE ROAD**

**SCHEDULE A : ROADWORKS**

ITEM	DESCRIPTION	TENDER AMOUNT
C1.2	GENERAL REQUIREMENTS AND PROVISIONS	
C1.3	CONTRACTOR'S SITE ESTABLISHMENT AND GENERAL OBLIGATIONS	
C1.4	FACILITIES FOR THE ENGINEER	
C1.5	ACCOMMODATION OF TRAFFIC	
C1.6	CLEARING AND GRUBBING	
C1.7	HAUL AND LOADING	
C2.1	GENERAL REQUIREMENTS AND TRENCHING FOR SERVICES	
C2.2	DRY SERVICES	
C3.1	DRAINS	
C3.2	PREFABRICATED CULVERTS	
C3.3	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
C4.1	BORROW MATERIALS	
C4.2	CUT MATERIALS	
C4.4	COMMERCIAL MATERIALS	
C5.1	ROADBED	
C5.2	FILL	
C5.3	ROAD PAVEMENT LAYERS	
C5.4	STABILIZATION	
C5.5	RECONSTRUCTION PAVEMENT	
C8.1	PRIME COAT	
C8.3	TEXTURE TREATMENT	
C8.8	PATCHING AND EDGE BREAK REPAIR	
C9.1	ASPHALT BASE AND SURFACING	
C10.1	GENERAL REQUIREMENTS FOR SURFACE TREATMENT	
C11.1	PITCHING, STONEMASONRY AND PROTECTION AGAINST EROSION	
C11.4	GUARDRAILS	
C11.5	FENCING	
C11.6	ROAD SIGNS	
C11.7	ROAD MARKINGS	
C11.8	LANDSCAPING AND PLANTING PLANTS	
C11.9	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
C20.1	TESTING MATERIALS AND WORKMANSHIP	
D1000	TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE	
	SUB - TOTAL BYPASS	
	<b>TOTAL AMOUNT FOR SCHEDULED A: ROADWORKS</b>	