

	SECTION 1				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 1300				
13.00	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS				
B13.01	Contractor's general obligations				
	(c) Time Related Obligations for the following road categories :				
	(i) Category A or B				
	(a) Light Rehabilitation	month	12.00		
	(ii) Categories C or D				
B13.02	Health and Safety				
	(a) Fixed obligation for preparation of risk assessment, H&S, etc. (once of payment per contract, paid on the first project)	Sum	1.00		
	(b) Time related obligation for updating risk assessment, safe work procedures, etc.				
	(i) Light Rehabilitation	Month	12.00		
	(ii) Heavy Rehabilitation	Month	12.00		
B13.03	(a) Project sign boards	No.	1.00		
	(b) Reusing of existing signboards. Rate to include amending the relevant text	No	1.00		
13/B12.02	Remuneration for Community Liaison Officer:				
	(a) Monthly payment	Prov.Sum	25000.00	44.00	
	(b) Handling costs and profit in respect of sub-item 13/B12.02	%			
13/B12.03	Testing/Investigations of materials (DCP, TEST PITS, FWDs)				
	monthly payment	Prov.Sum	35000.00	1200.00	
	handling cost	%			
	TOTAL CARRIED TO SUMMARY				
	SECTION 1500				
15.00	ACCOMODATION OF TRAFFIC				
B15.01	The provision of temporary traffic control facilities (except traffic lights and amber flicker lights for the supervisory staff) for the following road categories :				
	(a) Light Rehabilitation or Heavy Rehabilitation				
	(1) Category A : Major Arterials or Freeways	month	12.00		
	(i) Extra-over for Night Work	month	12.00		
	(2) Category B : Urban Arterials, Major Bus Routes, CBD and Industrial Roads	month	12.00		
	(i) Extra-over for Night Work	month	12.00		
	(3) Category C : Minor Bus Routes and Collectors	month	12.00		
	(4) Category D : Residential Streets	month	12.00		
	TOTAL CARRIED TO SUMMARY				
	SECTION 1700				
17.00	CLEARING AND GRUBBING				
	Road edge definition and cleaning				
	(i) Light cleaning	m ²	10.00		
	(ii) Heavy cleaning	m ²	10.00		
	TOTAL CARRIED TO SUMMARY				

	SECTION 1				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	SECTION 2100				
21.00	DRAINS				
21.02	Clearing and shaping existing open drains	m ³	10.00		
21.03	Excavation for subsoil drainage systems:				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0 m up to 1,5 m	m ³	10.00		
	(b) Extra over subitem 21.03(a) for excavation in hard material irrespective of depth	m ³	10.00		
21.04	Impermeable backfilling to subsoil drainage systems	m ³	10.00		
21.06	Natural permeable material in subsoil drainage systems (crushed stone):				
	(b) Crushed stone obtained from commercial sources				
	(i) Coarse-Grade	m ³	10.00		
21.07	Natural permeable material in subsoil drainage systems :				
	(b) Sand from commercial sources				
	(i) Coarse Grade	m ³	10.00		
21.08	Pipes in subsoil drainage systems:				
	(b) Unplasticised PVC pipes and fittings, normal duty complete with couplings				
	(i) 100 mm internal dia. perforated or slotted	m	10.00		
	(ii) 100 mm internal dia. unperforated	m	10.00		
21.10	Synthetic-fibre filter fabric				
	(a) Grade A	m ²	100.00		
21.12	Concrete outlet structures, manhole boxes, junction boxes and cleaning eyes for subsoil drainage systems :				
	(a) Outlet structures	No	2.00		
	(d) Cleaning eyes	No	2.00		
21.13	Concrete caps for subsoil drain pipes	No	2.00		
21.14	Repairing or replacing existing drainage systems	Prov Sum	10000.00		
21.15	Overhaul for material hauled in excess of 15,0 km free-haul (normal overhaul)	m ³ .km	56000.00		
21.17	Test flushing of pipe subsoil drains	No	2.00		
	TOTAL CARRIED TO SUMMARY				

SECTION 1					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SECTION 2300					
23.00	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE				
23.01	Concrete kerbing				
	(a) Precast kerbing to SABS 927				
	(iv) Figure 4 kerb	m	10.00		
	(vi) Figure 6 kerb	m	10.00		
	(v) figure 12 kerb	m	10.00		
	(b) Extra-over item 23.01 (a) for :				
	(i) Radius of 1 m to 4 m	m	10.00		
	(ii) Radius of 4 m to 20 m	m	10.00		
23.02	Concrete kerbing-channelling combination				
	(a) Precast kerb to SABS 927 and cast in situ channel 300 mm concrete class 20/13)				
	(iv) Figure 4 kerb	m	10.00		
	(vi) Figure 6 kerb	m	10.00		
23.05	Inlet, outlet, transition and similar structures (typical designs):	No	15.00		
23.06	Inlet, outlet, transition and similar structures (measured by components)				
	(a) Concrete class 20/13 including finishing.	m ³	20.00		
23.08	Concrete lining for open drains				
	(a) Cast in situ concrete lining class 20/13 for:				
	(i) Open Drains including finishing	m ³	20.00		
	(ii) Other concrete work (Pedestrian, vehicular scoops, bullnosing, driveways etc.) including	m ³	20.00		
23.10	Sealed joints in concrete linings				
	(c) Polysulphide-based sealant	m	10.00		
23.13	Polyethylene sheeting (0,15 mm thick)	m ²	20.00		
B23.17	Repairs to damaged kerbs	Prov Sum	1000.00		
B23.18	Break-out and remove the following roadway elements and cart to spoil :				
	(a) Kerbs	m	10.00		
	(b) Kerb and channel	m	10.00		
	(c) Medians	m ²	20.00		
	(d) Sidewalks	m ²	20.00		
	(e) Driveways	m ²	20.00		
	(f) Extra-over item B23.18 (a), (b), (c), (d) and (e) for selection of concrete suitable for recycling and stockpile as directed	m ³	10.00		
	(g) Extra-over item B23.18 (a) and (b) for selection of Kerbs suitable for re-use and stockpile as directed	m	10.00		
23.14	Saw Cutting Bituminous surfacing and pavement layers for concrete lined drains	m	10.00		
TOTAL CARRIED TO SUMMARY					
SECTION 2400					
24.00	ASPHALT AND CONCRETE BERMS				
B24.01	Asphalt berms				
	(c) Placed where specified by the Engineer				
	(i) SS10 hot mix asphalt	m	10.00		
24.03	Prime and tack coats				
	(b) Tack coat (Grade 60 anionic bitumen emulsion)	m ²	10.00		
B24.05	Removal of asphalt haunch to spoil/stockpile	m	10.00		
TOTAL CARRIED TO SUMMARY					
SECTION 3300					
33.00	MASS EARTHWORKS				
33.01	Cut and borrow to fill, including free-haul up to 0,5 km (backfill to undercut)				
	(a) Gravel material in compacted layer thickness of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	5.00		
	(ii) Compacted to 93% of modified AASHTO density	m ³	5.00		
	(e) Pioneer layer	m ³	5.00		
	Cut and borrow to fill, including free-haul up to 0,5 km (backfill to undercut)				
	(a) Gravel material in compacted layer thickness of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	5.00		
	(ii) Compacted to 93% of modified AASHTO density	m ³	5.00		
	(e) Pioneer layer	m ³	5.00		
33.04	Cut to spoil, including free-haul up to 0,5 km. Material obtained from:				
	(b) Intermediate excavation	m ³	5.00		
	(c) Hard excavation	m ³	5.00		
33.07	Removal of unsuitable material (including free-haul of 5 km):				
	(a) In layer thicknesses of 200 mm and less:				
	(i) Stable material	m ³	5.00		
	(ii) Unstable material	m ³	5.00		
B33.20	Fill constructed with material obtained from commercial sources or sources provided				
	(a) Gravel material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	5.00		
	(ii) Compacted to 93% of modified AASHTO density	m ³	5.00		
	(iii) Eight-roller-passes compaction	m ³	5.00		
	(b) Rock fill	m ³	5.00		
	(c) Rock protection at the toes of fills	m ³	5.00		
	(d) Pioneer layer				
B33.21	Fill constructed with material from temporary (not designated) stockpiles or directly				
	(a) Gravel material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	5.00		
	(ii) Compacted to 93% of modified AASHTO density	m ³	5.00		
	(iii) Eight-roller-passes compaction	m ³	5.00		
B33.22	Fill constructed with gravel hauled from designated borrow pits or from designated				
	(a) Gravel material in compacted layer thicknesses of 200 mm and less:				
	(i) Compacted to 90% of modified AASHTO density	m ³	5.00		
	(ii) Compacted to 93% of modified AASHTO density	m ³	5.00		
	(iii) Eight-roller-passes compaction	m ³	5.00		
33/16.02	Overhaul on material hauled in excess of 5,0 km (ordinary overhaul)	m ³ -km	1,000.00		
33/32.06	Stockpiling of material	m ³	1,000.00		

	SECTION 1				
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.00	Supply and Lay Asphalt (C) BY HAND				
	(i) Sa-S10	t	10.00		
4.00	Tack Coat				
	Spray surface using 60% anionic stable grade emulsion @ 0,3 l/m ²	m ²	10.00		
	Variation in application of emulsion	litre	2.00		
5.00	Testing				
	Density testing of Asphalt using Nuclear Gauge	No.	5.00		
	Coring for Density Testing				
	(i) 0-50mm	No.	5.00		
	(ii) 0-100mm	No.	5.00		
	Extra over item (ii) per 10mm of additional cored	mm	1.00		
6.00	Patching of Existing Surface				
SA.3.1	Patching (Surface Repairs - Asphalt Wearing Course)				
	(i) Deep patching with asphalt (0 mm to 160 mm)	m ²	50.00		
	(ii) Deep patching with asphalt (0 mm to 100 mm)	m ²	50.00		
	(iii) Shallow patching (0 mm to 75 mm deep)	m ²	50.00		
	(iv) Shallow patching (0 mm to 50 mm deep)	m ²	50.00		
	Extra-over item SA3.1(a) for patches greater than 100 mm deep.	t	20.00		
	PART RE				
	REINSTATEMENT				
RE 1	1.reinstating at the following depth: rate include supplying and laying of material (G2 material and Hot mix asphalt at a thickness of 50mm), labour, resources, excavation, saw cutting, spoiling of material, compacting pavement floors etc.				
	(i) Category B(>1000mm G2 and 50mm hot mix asphalt 10mm maximum grading "AC10"	m2	20.00		
	(i) Category B(251mm-1000mm G2 and 100mm hot mix asphalt 10mm maximum grading "AC10"	m2	20.00		
	(ii) Category C (250-500mm G2 and 50mm hot mix asphalt 10mm maximum grading "AC10"	m2	20.00		
	(iii) Category D (0-249mm G2 and 50mm hot mix asphalt 10mm maximum grading "AC10"	m2	20.00		
	TOTAL CARRIED TO SUMMARY				
	DAYWORKS				
	Section C100				
C10.01	Personnel during normal working hours:				
	(a) Unskilled labour	hr	10.00		
	(b) Semi-skilled labour	hr	10.00		
	(c) Skilled labour	hr	10.00		
	(e) Flag-person	hr	10.00		
C10.03	Plant: (Working)				
	(a) Tipper trucks:				
	(i) 6 m ³ capacity	hr	10.00		
	(ii) 10 m ³ capacity	hr	10.00		
	(b) TLB	hr	10.00		
	(c) Front end loader				
	(d) Grader CAT (Cat 140G or similar)	hr	10.00		
	(e) Water truck (7 000 litre)	hr	10.00		
	(f) Vibratory roller (Bomag 212 or similar)	hr	10.00		
	(g) Pneumatic tyred roller (14 t)	hr	10.00		
	(h) Milling machine (2,0 m)	hr	10.00		
	(i) Recycling machine (2,0 m)	hr	10.00		
	(j) Screening Plant	hr	10.00		
	(k) Skidstear loader	hr	10.00		
	(l) 1 tonne Pick-up truck, single-cab without canopy (Bakkie)	hr	10.00		
	(m) 2 tonne Pick-up truck, single-cab without canopy (Bakkie)	hr	10.00		
C10.04	Materials:				
	(a) Procurement of materials				
	(b) Contractor's handling costs, profit and all other charges in respect of item B18.04(a)	Prov Sum	15,000.00	1.00	
	(b) Contractor's handling costs, profit and all other charges in respect of item B18.04(a)	%			
	Materials				
C10.04	(a) Procurement of materials BSM:	sum	10000.00	1.00	
	Materials				
C10.04	(a) Procurement of materials	sum	10000.00	1.00	