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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B1900	DAYWORKS (PROVISIONAL)				
B19.01	Personnel during normal working hours				
	(a) Unskilled labour	hr	40		
	(b) Semi-skilled labour	hr	10		
	(c) Skilled labour	hr	10		
	(d) Ganger	hr	10		
	(e) Flagman	hr	20		
B19.02	Plant				
	(a) Flat bed truck (7t)	hr	18		
	(b) Tipper Trucks - 10m³	hr	18		
	(c) Tipper Trucks - 12m³	hr	18		
	(d) Dumper Trucks - 10m³	hr	9		
	(e) Tipper Trucks - 15m³	hr	18		
	(f) Loader (2.5 ton) 950	hr	9		
	(g) TLB (digger loader)	hr	63		
	(h) Excavator (20 ton)	hr	36		
	(i) Excavator (25 ton)	hr	9		
	(j) Excavator (30 ton)	hr	9		
	(k) Excavator (Hammer only) HB1700	hr	9		
	(l) Grader (AT 140 G or similar)	hr	27		
	(m) Roller (Smooth 12 ton)	hr	9		
	(n) Roller pneumatic	hr	9		
	(o) Roller Tow Tractor and Grid	hr	9		
	(p) Roller (pad foot 12 ton)	hr	9		
	(q) Water truck (11000 l)	hr	9		
	(r) Water truck (12000 l - 14000 l)	hr	9		
	(s) Water truck (15000 l - 18000 l)	hr	9		
	(t) Jumping Jack	hr	9		
	(u) Dozer (D7 or similar)	hr	18		
	(v) Concrete Mixer 400L	hr	50		
	(u) Mobile Crusher 600 X 900 Single stage	hr	200		
	(v) Skidsteer with Milling Machine attachment(1000mm wide x 100mm Cut depth)	hr	200		
	(w) Milling Machine (1000mm wide x 100mm Cut depth)	hr	200		
	(aa) Crane Truck 8 ton	hr	18		
	(ab) Roll back Truck 8 ton	hr	9		
	(ab) Suitable truck/but for transporting General Assistants (30 people minimum)	km	500		
	(ad) Safety vehicle for pre-marking purposes	hr	-		Rate Only
	(ae) Compressor (air) including hose and 2 breakers (60 Litres per second at 7 Bar)	hr	-		Rate Only
	(af) Dewatering pump including generators and accessories (20 - 45 Litres Per Second)	hr	-		Rate Only
	(ag) Mobile electric welding sets and accessories (250Amp)	hr	-		Rate Only
	(ah) Cutting torch (mobile oxy acetylene installation)	hr	-		Rate Only
	(ai) Mobile concrete mixers 400kl capacity	hr	-		Rate Only
	(aj) Light delivery vehicle (LDV)	km	5000		
	(al) Low bed truck (35t)	km	500		
B19.03	Materials				
	(a) Procurement of Materials	Prov Sum			R200 000.00
	(b) Contractors Handling Costs, Profit, and all other charges in respect of sub-item B19.03	%	R200 000.00		
CARRIED FORWARD TO SUMMARY :					R200 000.

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2100	DRAINS				
B21.01	Excavation of open drains (a) Excavating soft material situated within the following depth ranges below the surface level (i) 0m up to 1.5m (b) Extra over subitem B21.01(a) for excavation in hard material, irrespective of depth	m ³ m ³	100 5		
B21.02	Clearing and shaping existing open drains	m ³	50		
21.05	Banks and dykes	m ³	-		RATE ONLY
21.15	Overhaul for material hauled in excess of 1,0km free-haul (normal overhaul)	m ³ -km	200		
21.16	Backfilling existing eroded side drains	m ³	50		
21.17	Test flushing of pipe subsoil drains	No	-		RATE ONLY
B21.18	Clearing of concrete drainage channels (a) Side drains, median drains and the like (c) Other drains and channels within the following invert ranges (i) less than 1.0m (ii) 1.0m to 2.0m	m ² m ² m ²	100 100 50		
21.19	Selected backfill material under concrete-lined side drains compacted to 93% of modified AASHTO density	m ³	-		RATE ONLY
B21.20	Clearing and shaping side and mitre drains by road grader	m	350		
B21.21	Exposing of existing subsoil drains	m ³	-		RATE ONLY
B21.22	Clearing of subsoil drains	m	-		RATE ONLY
B21.03	Excavation in all material for subsurface drains (i) 0m up to 1.5m	m ³	-		RATE ONLY
B21.04	Impermeable backfill to subsoil drainage system	m ³	-		RATE ONLY
B21.06	Natural permeable backfill (19mm Crushed stone) from approved sources on site	m ³	-		RATE ONLY
B21.07	Coarse sand from approved sources on site	m ³	-		RATE ONLY
B21.08	Pipes in subsoil drainage systems: (a) Perforated pitchfibre pipe (150mm) (b) Non perforated pitchfibre pipe (150mm)	m m	- -		RATE ONLY RATE ONLY
B21.10	Grade 2 Geotextile	m ²	-		RATE ONLY
B21.12	Concrete outlet structures (a) Outlet structures	No	-		RATE ONLY
CARRIED FORWARD TO SUMMARY :					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2200	PREFABRICATED CULVERTS				
22.01	Excavation				
	(a) Excavating soft material situated within the following depth ranges below the level surface level				
	(i) 0m up to 1,5m	m ³	40		
	(ii) Exceeding 1,5m and up to 3,0m	m ³	10		
	(b) Extra over subitem 22.01(a) for excavation in hard material, irrespective of depth	m ³	5		
22.02	Backfilling				
	(a) Using the excavated material	m ³	40		
	(b) Using imported selected material	m ³	50		
	(c) Extra over subitem 22.02(a) and (b) for soil cement backfilling	m ³	10		
22.03	Concrete pipe culvert				
	(c) On Class B bedding				
	(i) 600 mm dia class 100D	m	9		
	(ii) 900 mm dia class 100D	m	9		
	(iii) Box Culvert 1,2m X 1.8m W	m	-		RATE ONLY
22.05	Portal and rectangular culverts				
	(a) complete with <u>prefabricated</u> floor slab				
	(i) 1200x1200 class 150S or equivalent	m	-		RATE ONLY
	(ii) 1500x1500 class 150S or equivalent	m	-		RATE ONLY
	(iii) 1800x1800 class 150S or equivalent	m	-		RATE ONLY
	(iv) 2100x2100 class 150S or equivalent	m	-		RATE ONLY
	(v) 2400x2400 class 150S or equivalent	m	-		RATE ONLY
22.07	Cast in situ concrete and formwork				
	(a) In Class A bedding, screeds and encasing of pipes, Class 25/19 concrete	m ³	10		
	(b) In Floor Slabs for Portal Culverts, Including formwork, joints and class U2 surface finish (Class 30/19mm Concrete)	m ³ m ³	20.00		
	(c) In inlet and outlet structures, skewed ends, catchpits, manholes, thrust and anchor blocks, excluding formwork but including class U2 surface finish (25MPa / 19)	m ³	20		
	(d) Formwork for concrete under subitem 22.07(a & c) above	m ²	100		
22.10	Steel reinforcement				
	(b) High tensile steel	t	6.0		
	(c) Welded mesh (Mesh Ref 395)	kg	6640		
22.13	Removing and re-laying existing pipes				
	(i) 600 mm	m	14		
22.14	Removing and disposing of existing pipes	m	14		
22.25	Overhaul on excavated material as described, in excess of the free haul distance of 1.0 km	m ³ -km	40		
CARRIED FORWARD TO SUMMARY :					

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FORWARD TO SUMMARY :

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL				
B34.01	Pavement layers constructed from gravel taken from cut or borrow including free haul up to 1,0km				
	(h) Gravel wearing course compacted to				
	(ii) 95% Mod AASHTO density: 150mm layer thickness	m ³	1425		
	(iii) 95% Mos AASHTO Density 150mm using crushed material	m ³	1500		
34.02	Extra over item 34.01 for excavation of material in				
	(a) Intermediate material	m ³	-		RATE ONLY
34.07	Extra over for temporarily blading the material to windrow	m ³	1000		
B34.14	Wet blading				
	(a) 6m road width (riding surface)	km	25		
	(b) 7m road width (riding surface)	km	25		
B34.15	Dry blading				
	(a) 6m road width (riding surface)	km	30		
	(b) 7m road width (riding surface)	km	50		
B34.16	Accessibility grading				
	(a) 6m road width (riding surface)	km	20		
	(b) 7m road width (riding surface)	km	-		RATE ONLY
B34.17	Special grading				
	(a) 6m road width (riding surface)	km	5		
	(b) 7m road width (riding surface)	km	5		
B34.18	Reshaping				
	(a) 6m road width (riding surface)	km	5		
	(b) 7m road width (riding surface)	km	5		
B34.19	Heavy Maintenance				
	(a) 6m road width (riding surface)	km	5		
	(b) 7m road width (riding surface)	km	5		
B34.20	Gravel Patching				
	(a) Material from Borrow Pits	m ³	250		
	(a) Crushed Material	m ³	150		
B34.21	Light Road Bed Preparation				
	(a) 6m road width	km	1		
	(b) 7m road width	km	1		
B34.22	Heavy Road Bed Preparation				
	(a) 6m road width	km	-		RATE ONLY
	(b) 7m road width	km	-		RATE ONLY
B34.23	Gravel shoulder repair				
	(a) Ripping, watering, mixing, placing and compacting existing shoulders to 95% Mod AASHTO density	m ³	150		
	(b) Extra over subitem (a) for adding extra material (free haul)	m ³	70		
	(c) Extra over for subitem (a) for stabilizing material	m ³	55		
B34.24	Removal of edge build-up				
	(a) Remove material and load for spoil	km	5		
	(b) Remove material and dispose of adjacent to road	km	2		
34/16.02	Overhaul on material hauled in excess of 1,0km (ordinary overhaul)	m ³ -km	1500		
B34.26	Regravelling in short lengths up to 300m	m ³	3000		
FORWARD TO SUMMARY :					

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4800	TREATMENT OF AN EXISTING SURFACE EXHIBITING CERTAIN DEFECTS				
	POTHOLE REPAIR - PO1				
48 / 39.01	Sawing asphalt or cemented pavement layers for patching				
	(a) Sawing asphalt to an average depth : (provisional sum)				
	(i) not exceeding 50 mm	m	2500		
48/39.02	Excavation in existing pavements for patching in				
	(c) Bituminous seal layers	m ³	88		
48/B39.06	Tack Coat (60% spray grade emulsion)	l	1700		
48/B39.07	Cold premix 35 mm thick	m ²	3400		
	SLACK AND DEPRESSION REPAIR - PO2				
B48.04	Screed of asphalt or coarse slurry :				
	(a) Tack coat using 60% anionic emulsion diluted 50/50 with water	l	750		
	(b) Continuously - graded medium mixture asphalt	t	5		
	(c) Coarse grade slurry	m ³	8		
	(d) Chip out 500mm by 35 mm strip	m ²	100		
	CRACK SEALING - PO4				
48.06	Cleaning the cracks with compressed air	km	-		RATE ONLY
48.07	Applying bituminous binders and herbicides for sealing cracks:				
	(a) Herbicide	l	-		RATE ONLY
	(f) Petroseal with latex mixed 50/50 with water	l	-		RATE ONLY
B48.14	Geotextile seal bandage				
	(a) Cracks and joints - 200 mm wide geotextile strip	m	100		
	(b) Cracked areas - geotextile				
	(i) Not exceeding 50m ²	m ²	250		
	(ii) Exceeding 50m ² but not exceeding 100m ²	m ²	-		RATE ONLY
	(iii) Exceeding 100m ² but not exceeding 150m ²	m ²	-		RATE ONLY
	(iv) Exceeding 150m ²	m ²	-		RATE ONLY
B48.15	Crack sealing using Method 1 (sealant and crusher dust)	l	-		RATE ONLY
	EDGE REPAIRS - PO5				
48/39.05	Cutting back the edges of the existing surface for repairing of edge breaks (avg depth = 80 mm)	m	350		
B48.05	Repairing edge breaks in surfacing				
	(a) Tack coat - 60% Anionic spray grade emulsion diluted 50/50 with water	l	150		
	(c) Reconstructing edges using cold premix	t	2		
	SLURRY SEAL TREATMENT - PO6				
B48.03	Slurry seal				
	(a) Tack coat using 30% bitumen emulsion	l	2600		
	(b) Slurry applied by hand (coarse grade slurry)				
	(i) Not exceeding 50m ²	m ²	100		
	(ii) Exceeding 50m ² but not exceeding 100m ²	m ²	200		
	(iii) Exceeding 100m ² but not exceeding 150m ²	m ²	500		
	(iv) Exceeding 150m ²	m ²	9600		
CARRIED FORWARD TO SUMMARY :					

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