

Item	Description	Unit	Quantity	Rate	Amount R
<b>B1200</b>	<b>GENERAL REQUIREMENTS AND PROVISION</b>				
<b>B12.03</b>	<b>personal and vehicle permits (i.e. safety induction, AVOP,</b>				
(a)	Airside induction and permits	PC Sum	1		
(b)	Vehicle Permits and Branding	PC Sum	1		
( c)	Insurance	PC Sum	1		
<b>12.04</b>	Compliance with Environmental and Occupational Health Safety Regulations	PC Sum	1		
<b>B1200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>B1300</b>	<b>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</b>				
B13.01	Contractor's general obligations				
<b>B 13.01</b>	<b>The contractor's general obligation</b>				
	<b>(a) Fixed Cost</b>				
	<b>Camps, Offices , Stores and overheads</b>	<b>Lump Sum</b>			
	<b>( c)Time-related obligations</b>				
(i)	Paint markings team	Per Shift	12		
(ii)	Concrete Team	Per Shift	12		
(iii)	Paving Team	Per Shift	12		
(iv)	<b>SMALL TEAM</b> (for cold crack sealing, viasealing,	Per Shift	12		
(iiv)	<b>HAND TEAM</b> (for areas up to 20m2/shift)	Per Shift	12		
(v)	<b>MILLING TEAM</b> (2m Milling Machine)	Per Shift	12		
(vii)	Extra over for Night Shift	Per Shift	12		
	Allowance over for Standby fees ( during Holidays and Builders Break	Per Shift	12		
	Extra over For asphalt mixing at Night	Per Shift	12		
	Extra over for dispatching asphalt at Night	Per Shift	12		
B13.2	Material				
	Actual cost of Material - <b>Mark up</b> on proven and certified materials approved by the Service Manager or his representative	10%			
<b>B1300</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>B1500</b>	<b>ACCOMMODATION OF TRAFFIC</b>				
B15.01	Accommodating Traffic and maintaining deviation				
B15.03	<b>Temporary traffic-control facilities</b>				
	(a) Flagmen	Man-day	24		0
	(b) Portable STOP and GO-RY signs	Number	24		0
	(c ) Moveable barricade/road sign combination	Number	10		0
	(d)Traffic Cones TD4	Number	24		0
<b>B15.15</b>	<b>night work or where instructed</b>	<b>Lump Sum</b>	<b>1</b>		20 000,00
<b>B1500</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
1700	<p><b>CLEARING AND GRUBBING</b></p> <p>B17.05 <b>Cleaning out of hydraulic structures:</b></p> <p>(a) Pipes with internal diameter up to and including 750mm</p> <p>(b) Pipes with diameter exceeding 750mm</p> <p>(c) Box culverts up to and including 1.5m vertical dimensions</p> <p>(d) Box culverts exceeding 1.5m vertical dimensions</p> <p>(e) Clear blocked full bore (the average length of the full bore pipes 30m approx. and mechanical drain cleaning to be used to clear blockage).</p> <p>(f) Clear all waterways/channels of debris/rubble or sand</p>	m <sup>3</sup>	50		
1700	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>B1800</b>	<b>DAYWORKS</b>				
	(All items are provisional)				
B18.01	<b>Vehicles, plant and equipment</b>				
	Front Wheel Loader 60kW	shift	1		Rate Only
	Backhoe/ Loader 55kW	shift	1		Rate Only
	Tracked Excavator 120kW	shift	1		Rate Only
	Grader 110kW	shift	1		Rate Only
	Tip Truck 6m <sup>3</sup>	shift	1		Rate Only
	Tip Truck 10m <sup>3</sup>	shift	1		Rate Only
	Self-propelled vibrating roller (>9t)	shift	1		Rate Only
	Walk-behind vibrating Roller (>1t)	shift	1		Rate Only
	Plate Compactor	shift	1		Rate Only
	Water Cart	shift	1		Rate Only
	Compressor, hoses and 2 jackhammers	shift	1		Rate Only
	7 ton Flat Truck	shift	1		Rate Only
	LDV	shift	1		Rate Only
	Road Marking Machine	shift	1		Rate Only
	Generator and lighting system	shift	1		Rate Only
	Paver Machine	shift	1		Rate Only
	Milling Machine	shift	1		Rate Only
B18.02	<b>(a) Labour</b>				
	(i) Labourer	hr			Rate Only
	(ii) Supervisor	hr			Rate Only
	(iii) Driver	hr			Rate Only
	(iv) Operator	hr			Rate Only
					Rate Only
<b>B1800</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>2300</b>	<b>CONCRETE KERBING, CONCRETE CHANNELING, CHUTES AND DOWNPIPES, CONCRETE LINING</b> (All items are provisional)				
2301	<b>CONCRETE KERBING</b>				
(a)	Kerbing, type BK1	m	10		
(b)	Kerbing, type BK2	m	10		
(c)	Kerbing, type MK10	m	10		
(d)	Edging, type E1	m	10		
(e)	Channels, type C1	m	10		
(f)	Kerb inlet	m	10		
(g)	Concrete 15MPa in slabs	m <sup>3</sup>	20		
(h)	Concrete 30MPa in slabs	m <sup>3</sup>	20		
<b>B3800</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>B3800</b>	<b>BREAKING UP EXISTING PAVEMENTS</b> (All items are provisional)				
B38.01	<b>Excavating and removing existing bituminous material (except milled material):</b> (a) Material intended for recycling with the average depth of excavation: (i) Not exceeding 30mm (ii) depth between 30mm and 60mm (iii) depth between 60mm and 100mm	m <sup>2</sup>	100		
B38.02	Milling out existing bituminous materials with an average milling depth (a) Not Exceeding 30 mm (b) Exceeding 30 mm but not exceeding 60mm (c) Not Exceeding 30 mm	m <sup>3</sup>	100		
B38.03	<b>Excavate out cemented crushed stone base:</b> (a) Average milling depth exceeding 50mm but up to 100mm (i) Compressive strength of 10 Mpa up to and including 20 Mpa	m <sup>3</sup>	100		
B38.03	Excavation and spoiling materials from existing pavements (a) Non-Cemented Materials (b) Cemented Materials (c) Cemented Crushed stone	m <sup>3</sup>	100		
B38.08	<b>Sawing or cutting asphalt or cemented pavement layers:</b> (a) Sawing asphalt (i) Not exceeding 30mm (ii) depth between 30mm and 60mm (iii) depth between 60mm and 100mm	m <sup>2</sup>	100		
B38.13	Drilling Cores (a) In Asphalt (b) In Cemented Material	No	10		

<b>B3800</b>	<b>TOTAL CARRIED TO SUMMARY</b>				



Item	Description	Unit	Quantity	Rate	Amount R
<b>B4200</b>	<b>ASPHALT BASE AND SURFACING</b>				
<b>42.02</b>	<b>Asphalt Surfacing</b>				
(a)	Continuously graded	m <sup>2</sup>	100		
(b)	Gab-graded	m <sup>2</sup>	100		
(c)	Open-graded	m <sup>2</sup>	100		
B42.04	<b>Tack Coat at 60% stable grade emulsion (SS60 or similar) at 0.6l/m<sup>2</sup></b>	l	50		
42.05	<b>Binder variations:</b>				
	(i) Penetration Grade Bitumen	t	15		
	Cement	t	15		
	Lime	t	15		
B42.09	<b>Asphalt cold mix (Temporary use only)</b>	t	15		
B42.20	<b>Backfilling of excavations for pothole repairs or patching with:</b>				
	(a) Service roads and landside roads:patching or pothole repairs including all excavation and transport to spoil to approved dumping sites and including transport for asphalt material to site, labour and other costs				
	(i) BTB	t	15		
	(ii) 50 mm AC Surface (50/70 grade bitumen)	t	15		
<b>B4200</b>	<b>TOTAL CARRIED FORWARD</b>				0,00

Item	Description	Unit	Quantity	Rate	Amount R
B42.20  (cont.)	(b) Taxiways and Runways:patching or  pothole repairs including all excavation and transport  to spoil to approved dumping sites and including  transport for asphalt material to site, labour and other  costs  (i) AC (AP1)  (i) BTB  (ii) 50 mm AC Surface (50/70 grade bitumen)  <b>(iv) Normal Slurry</b>	t          m3	15          100		
<b>B4200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
B4800	TREATMENT OF EXISTING SURFACE EXHIBITING DEFECTS				
48.01	Treatment with diluted bituminous emulsion				
(a)	30% bitumen emulsion	l	50		
(b)	60% bitumen emulsion	l	50		
B48.07	Binder binders for crack seals				
	Anionic stable grade emulsion mixed with synthetic modifiers	l	50		
	Hot Bitumen Rubber	l	50		
	<b>Hot Cracksealing</b>	l	50		
	<b>Sealing Compound</b>	l	50		
<b>B4200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				0,00

Item	Description	Unit	Quantity	Rate	Amount R
<b>B5600</b>	<b>AIRSIDE SIGNAGE</b>				
B56.01	<b>New airside signage to convey a mandatory instruction, information on a location or destination on a movement area:</b> (a) Mandatory instruction signs (in accordance to ICAO Annex 14 - 5.4.2) (i) Location/runway designation (ii) Runway designation/location (b) Information signs (in accordance to ICAO Annex 14 - 5.4.3) (i) Location/runway vacated (ii) Runway vacated/location	No	1		
		No	1		
		No	1		
		No	1		
B56.08	<b>Roadside furniture dismantling, storing and re-erecting signage at new positions (mandatory &amp; information signs)</b>	PC Sum	1		50 000,00
<b>B5600</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

Item	Description	Unit	Quantity	Rate	Amount R
<b>B57.01</b>	<b>Road Marking Paint</b>				
	<i>Supply and apply of non-reflectorised paint</i>				
	<i>applied at nominal rate of 0.42l/m2 including</i>				
	<i>Pre-marking and setting out</i>				
<b>(a)</b>	<b>White lines (broken or unbroken)</b>				
	Concrete pavement				
(i)	Width = 100mm	km	1		
(ii)	Width = 150mm	km	1		
(iii)	Width = 200mm	km	1		
(iv)	Width = 300mm	km	1		
(v)	Width = 450mm	km	1		
	Asphalt pavement				
(vi)	Width = 100mm	km	1		
(vii)	Width = 150mm	km	1		
(viii)	Width = 200mm	km	1		
(ix)	Width = 300mm	km	1		
(x)	Width = 450mm	km	1		
<b>(b)</b>	<b>Yellow lines (broken or unbroken)</b>				
	Concrete pavement				
(i)	Width = 100mm	km	1		
(ii)	Width = 150mm	km	1		
(iii)	Width = 200mm	km	1		
(iv)	Width = 300mm	km	1		
	Asphalt pavement				

(v)	Width = 100mm	km	1		
(vi)	Width = 150mm	km	1		
(vii)	Width = 200mm	km	1		
(viii)	Width = 300mm	km	1		
<b>(c)</b>	<b>Black lines (broken or unbroken)</b>				
	Concrete pavement				
(i)	Width = 100mm	km	1		
(ii)	Width = 150mm	km	1		
(iii)	Width = 200mm	km	1		
(iv)	Width = 300mm	km	1		
<b>(d)</b>	<b>Red lines (broken or unbroken)</b>				
	Concrete pavement				
(i)	Width = 100mm	km	1		
(ii)	Width = 150mm	km	1		
(iii)	Width = 200mm	km	1		
(iv)	Width = 300mm	km	1		
	Asphalt pavement				
(v)	Width = 100mm	km	1		
(vi)	Width = 150mm	km	1		
(vii)	Width = 200mm	km	1		
(viii)	Width = 300mm	km	1		
<b>(e)</b>	<b>Characters and Symbols as per ACI Handbook and ICAO Annex 14</b>				
(i)	Red characters and symbols	m <sup>2</sup>	10		
(ii)	Black characters and symbols	m <sup>2</sup>	10		
(iii)	Pedestrian crossing blocks (white)	m <sup>2</sup>	100		
(iv)	Rectangular block (red)	m <sup>2</sup>	10		
(v)	Red circle	m <sup>2</sup>	10		
<b>(f)</b>	<b>Staggered white lines</b>				
(i)	500mm x 100mm	km	1		
(ii)	500mm x 150mm	km	1		
(iii)	500mm x 200mm	km	1		
<b>B57.02</b>	<b>Retro- Reflective Road marking paint</b>				
<b>(a)</b>	<b>Main Runway 01/19</b>				
	Runway Centreline – white line 900mm width				
(i)	(water-based paint)	km	3		
(ii)	Edge lines – white line 900mm width	km	1		
(iii)	Threshold blocks (white)	m <sup>2</sup>	500		

(iv)	Touchdowns (white)	km	5		
(v)	Aiming blocks (white)	m <sup>2</sup>	5		
<b>(b)</b>	<b>Secondary Runway 16/34</b>				
	Runway Centreline – white line 500mm width				
(i)	(water-based paint)	km	3		
(ii)	Edge lines – white line 900mm width	km	1		
(iii)	Threshold blocks (white)	m <sup>2</sup>	500		
(iv)	Touchdowns (white)	km	3		
(v)	Aiming blocks (white)	m <sup>2</sup>	40		
<b>(c)</b>	<b>Taxiways</b>				
	Centreline and edge lines – yellow line 150mm width				
(i)	width	km	1		
(ii)	Bay designators blocks (yellow)	km	1		
(iii)	Holding points (yellow) – width 300mm	km	1		
<b>(d)</b>	<b>Road marking of Apron Signage/Characters</b>				
	Apron centreline (yellow) – 200mm (concrete pavement)				
(i)		km	1		
(ii)	Bay designators (yellow) (concrete pavement)	No	12		
(iii)	Jet Blast	No	12		
(iv)	Noise Hazard	No	12		
(v)	No Entry	No	10		
(vi)	No smoking	No	12		
(vii)	Give way	No	12		
(viii)	Painted islands	m <sup>2</sup>	31		
(ix)	Stop sign	No	12		
(x)	Stoplines	m <sup>2</sup>	120		
(xi)	2,5m Yield	m <sup>2</sup>	12		
(xii)	FH sign	No	12		
(xiii)	Max speed	No	12		
(xiv)	Max vehicle height	No	12		
(xv)	Mandatory turn	No	12		
(xvi)	Bus turn	No	5		
(xvii)	Directional arrows	No	12		
<b>(e)</b>	<b>Additional markings</b>				
(i)	Speed humps	m <sup>2</sup>	20		
(ii)	1,25m EXIT	No	10		
(iii)	2,5m EXIT	No	5		
(iv)	1,25 RAMP UP	No	4		
(v)	2,5m RAMP DOWN	No	3		
(vi)	Black blocks 500 x 1300mm	m <sup>2</sup>	140		
(vii)	400mm letters and numbers	No	20		
(viii)	1,25m GPU	No	10		
(ix)	500mm CHOCK	No	10		
(x)	1,25m TUG	No	5		
(xi)	1,25m TECH	No	3		
(xii)	1,25m PAU	No	4		
(xiii)	1,25m STEPS	No	5		
(xiv)	200mm numbering	No	20		
<b>57.04</b>	<b>Variations in rate of application</b>				

	(a) White paint	litre	100	
	(b) Yellow paint	litre	100	
	(c) Red Paint	litre	100	
	(d) Glass Beads	kg	50	
<b>57.05</b>	<b>Roadstuds</b>	No	24	
<b>57.08</b>	<b>Removal of existing, temporart or permanent road marking by</b>			
(a)	Sandblasting	m <sup>2</sup>	1	
(b)	Removal of existing, temporary or permanent road markings by:			
	(i) Removal of existing paint markings	m <sup>2</sup>	1	Rate Only
	(ii) Overpainting as temporary measure	m <sup>2</sup>	1	Rate Only
<b>B5700</b>	<b>TOTAL CARRIED FORWARD</b>			

Item	Description	Unit	Quantity	Rate	Amount R
<b>B7100</b>	<b>CONCRETE PAVEMENTS</b>				
B71.02	<b>Patching areas where defects appear using fast setting concrete ABE FMS@25kg or equivalent</b>				
	(a) 350mm thickness	m <sup>3</sup>	100		
	(b) Varying thickness 350mm to 400mm	m <sup>3</sup>	100		
	<b>Patching areas where defects appear using fast setting concrete ABE QS@25kg or equivalent</b>				
	(a) 350mm thickness	m <sup>3</sup>	100		
	(b) Varying thickness 350mm to 400mm	m <sup>3</sup>	100		
B71.04	<b>Texturing and curing the concrete pavement:</b>				
	(a) Burlap - dragged and grooved texture	m <sup>2</sup>	100		
	(b) Curing	m <sup>2</sup>	100		
B71.05	<b>Variations in the rate of application of the curing compound</b>				
		l	50		
B71.06	<b>Joints:</b>				
	Resealing of joints in existing concrete pavements				
	as follows:				
	(a) Joints (less than 15mm wide)	m	50		
	(b) Joints (15mm to 25mm wide)	m	50		
	(c) Joints (25mm to 40mm wide)	m	50		
<b>B7100</b>	<b>TOTAL CARRIED FORWARD</b>				0,00

Item	Description	Unit	Quantity	Rate	Amount R
B71.06	<b>Joints: cont.</b>  (d) Forming and sealing joints between asphalt	m	100		
<b>B7100</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

<b>Section</b>	<b>Description</b>	<b>Amount R</b>
1200	GENERAL REQUIREMENTS AND PROVISION	R0,00
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	R0,00
1500	ACCOMMODATION OF TRAFFIC	R0,00
1700	CLEARING AND GRUBBING	R0,00
3800	BREAKING UP EXISTING PAVEMENT LAYERS	R0,00
3900	PATCHING AND REPAIRING EDGE BREAKS	R0,00
4200	ASPHALT BASE AND SURFACING	R0,00
4800	TREATMENT OF EXISTING SURFACE EXHIBITING DEFECTS	R0,00
5600	AIRSIDE SIGNAGE	R0,00
5700	ROAD MARKINGS	R0,00
7100	CONCRETE PAVEMENTS	R0,00
<b>TOTAL SCHEDULE</b>	<i>Please note: this cost is for 1 Year</i>	R0,00

	Amount
<b>CALCULATION OF TENDER SUM</b>	
TOTAL SCHEDULE A : PAVEMENT MAINTENANCE YEAR 1	
(YEAR 2 CPI ESCALATION*)	
SUB-TOTAL B: PAVEMENT MAINTENANCE YEAR 2 (YEAR 3 CPI ESCALATION*)	
SUB-TOTAL C: PAVEMENT MAINTENANCE YEAR 3 SUBTOTAL: YEAR 1+YEAR 2+YEAR3	
CONTINGENCIES @ 10% The sum provided here is under the sole control of the Service Manager and may be deducted in whole or in part	
TOTAL TENDER SUM EXCLUDING VAT	
VALUE-ADDED TAX (VAT) The tenderer shall add 15% of the subtotal for VAT	
<b>TENDER SUM CARRIED TO FORM OF OFFER</b>	
* Contract values will be increased/ decreased per current index stipulated in Statistic SA- Consumer Price Indices- all income groups. <b>6% escalation should be used for illustrative purposes.</b>	

\* SUB-TOTAL B: PAVEMENT MAINTENANCE YEAR 2 - This should  
be Year 1 + 6% escalation

\* SUB-TOTAL C PAVEMENT MAINTENANCE YEAR 3 - This should  
be Year 1 + 6% escalation