

SCOPE OF WORK 12070

Request for a Prospective Bidder to Supply, Deliver, Offload Higher-Grade Hot Asphalt and Repair Potholes at King Phalo Airport (KPA)

Specifications:

Asphalt:

**Table 8.1: Main Composition and Performance of Asphalt Mixes
(Continuously Graded Mixes)**

Property	Unit	Continuously Graded WC using 50/70 pen Binder		Continuously Graded AC using 40/50 pen Binder		BRASO		Continuously Graded BTB using 50/70 pen Binder	
		Min	Max	Min	Max	Min	Max	Min	Max
Target voids in mix	%	4.5	5.5	4.5	5.5	5.0	6.0	4.0	4.5
Filler/bitumen ratio	-	1.3	1.6	1.3	1.6	1.0	1.5	1.1	1.5
Indirect tensile strength @ 25 °C	kPa	1 000	-	1 000	-	550	-	1 000	-
Average Micron strain deformation per cycle in the Dynamic creep test in the 2000 – 3000 cycle range	Microns / cycle	-	0.45 [#]	-	0.4	-	0.5	-	0.45
MMLS Rutting (100k repetitions, 93% RICE briquettes, Dry, 50 °C)	mm	-	2.0	-	1.8	-	1.8	-	2.0
Marvel Penetration on joints (before refusal)	Litre/h	-	3.0	-	3.0	-	-	-	3.0
Voids in mix @ 300 gyrations of the Superpave Gyrotory Compactor	%	2.5 [#]	-	3.0	-	-	2.5	2.5	-

Scope of Work:

The repairs will entail the following but not limited to:

- Saw cut and excavate the defective areas not less than 70mm depth.
- Clean excavation and apply tack coat.
- Apply not less than 70mm hot Asphalt continuously graded medium asphalt compacted to 93% min rice density with mix specifications as per table 8.1 using 50/70 penetration grade bitumen and compact to final level.
- Restore painted areas with quick drying matt finish, excellent adhesion and coverage, good durability and resistance to abrasion paint. No hand painting will be permitted.
- Transport and disposal of rubble off site, unless otherwise agreed with the Service Manager i.e. transport rubble to the service road on Airside.

Method of Work:

- The service provider shall prepare its own full detailed method statement.

Guarantee:

- All work will be guaranteed for a minimum of 1 year after signing of completion certificate.

Table: 2.1 Pricing schedule

ITEM No	DESCRIPTION	QUANTITY	TENDERED RATE	TOTAL AMOUNT
1	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 1: Drop Off Zone Stop Sign (0.9m x 0.6m)	0.54m ²	R	R
2	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 2: Double Stop Sign near Main Gate (1.4m x 0.95m)	1.33m ²	R	R
3	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.	7.04m ²	R	R

	 Figure 3: Before Double Stop Sign (6.4m x 1.1m)			
4	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 4: Hump along Bluu Rental Depot (23m x 1.60m)	36.80m ²	R	R
5	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.	3.20m ²	R	R

	 Figure 5: Before Europcar Hump (2m x 1.6m)			
6	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 6: Europcar Hump (3.5m x 1.3m)	4.55m ²	R	R
7	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 7: Along Europcar Depot (28m x 1.0m)	28.00m ²	R	R

8	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 8: After Open Parking Exit Gate (0.8m x 0.5m)	0.40m ²	R	R
9	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 9: Next to Long Term Parking (0.8m x 0.95m)	0.76m ²	R	R
10	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.	2.08m ²	R	R

	 Figure 10: Open Parking Exit (1.3m x 1.6m)			
11	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 11: Open Parking Exit (7.5m x 0.7m)	5.25m ²	R	R
12	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 12: Behind IMC Offices (1.7m x 0.7m)	1.19m ²	R	R

13	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 13: Near Open Parking Entrance Boom (0.7m x 0.7m)	0.49m ²	R	R
14	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 14: Near Open Parking Entrance Boom (0.6m x 0.8m)	0.48m ²	R	R
15	Supply material, plant, labor, prepare the surface and replace broken concrete. The strength of the surface must withstand the turning of heavy-duty trucks.	0.84m ²	R	R

	 Figure 15: Infront of VIP (1.2m x 0.7m)			
16	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 16: Offloading Zone (1.0m x 1.0m)	1.00m ²	R	R
17	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks. 	4.16m ²	R	R

	Figure 17: Hump near Drop Off Exit Boom (3.2m x 1.3m)			
18	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 18: After Hump near Drop Off Exit Boom (1.2m x 1.0m)	1.20m ²	R	R
19	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 19: Car Rental near Exit (1.2m x 1.9m)	2.28m ²	R	R
20	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.	9.90m ²	R	R

	 Figure 20: Car Rental near Exit (2.2m x 4.5m)			
21	Supply material, plant, labor, prepare the surface and replace missing humps. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 21: Drop Off Zone Stop Sign (No. 3)	No. 3	R	R
22	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks. 	8.10m ²	R	R

	Figure 22: Main Gate Security Access Gate (6m x 1.35m)			
23	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 23: Main Gate Security Access Gate (6m x 1.35m)	8.10m ²	R	R
24	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 24: Main Gate Security Access Gate (1.7m x 1.0m)	1.70m ²	R	R
25	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.	2.86m ²	R	R

	 Figure 25: Main Gate Waste Area (2.2m x 1.3m)			
26	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 26: Next to Puma Energies (12m x 2.2m)	26.40m ²	R	R
27	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 27: Next to Puma Energies (8m x 1.6m)	12.80m ²		

28	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 28: Near Puma Energies Exit (4.2m x 2.4m)	10.08m ²	R	R
29	Supply material, plant, labor, prepare the surface, compact, and apply hot asphalt and compact. The strength of the surface must withstand the turning of heavy-duty trucks.  Figure 25: Near Puma Energies Exit (4.3m x 1.3m)	5.59m ²	R	R
30	Airport permits & parking fees (AIT & Security awareness training) See Annexure B	Once off	R 5000.00	R 5000.00
31	Quote for the safety file: Appointed Contractor will be required to: At least to commence with repairs within 14 working days after receiving a purchase order	Once off	R	R

	(Please see Safety file specifications on Annexure C below)			
SUB-TOTAL				R
VAT @ 15 %				R
TOTAL				R

ANNEXURE: A (Evaluation criteria)

Criteria Description	Minimum Threshold	Maximum points	Score obtained
1. Company Experience in HOT Asphalt placement or construction of speed humps (Reference letters) Proven company relevant experience in HOT Asphalt placement or construction of speed humps in a high traffic area such as Shopping Centre, Airport, Hospitals, Correctional Centre's. Less than or equal to 1 Reference = 0 2 References = 25 3 or more References = 50	25	50	
2. Company Experience in Road Marking (Reference letters) Proven company relevant experience in road marking on high traffic areas such as Shopping Centre, Airport, Hospitals, Highways. Less than or equal to 1 Reference = 0	25	50	

• 2 References = 25 • 3 or more References = 50			
Total Score	50	100	

ANNEXURE: B (Permit Prices)

Permit Costs

Type of permit/ Course	Amount Incl VAT	Amount Excl VAT
EFF 1ST JULY 2014 (Hayley Grimley)		
VEHICLE ADD ON VPAF	R 4,082.39	R 3,581.04
VEHICLE PERMIT 1 YEAR	R 1,213.75	R 1,055.44
	R 5,296.14	R 4,636.48
PERMANENT PERMIT 2YRS	R 259.56	225.71
AVOP PERMIT 2 YRS	R 72.76	63.27
TEMPORARY PERMITS 1 DAY	R 36.17	R 31.45
TEMPORARY PERMITS 2 - 5 DAYS	R 50.37	43.8
TEMPORARY PERMIT 6 DAYS AND OVER	R 259.56	225.71
TEMPORARY VEHICLE PERMIT 1 DAY	R 43.61	37.92
TEMPORARY VEHICLE PERMIT 2 DAYS	R 81.90	71.22
TEMPORARY VEHICLE PERMIT 3 DAYS	R 120.21	104.53
1 - 3 MONTHS TEMPORARY VEHICLE PERMIT	R 303.17	263.63
4 - 6 MONTHS TEMPORARY VEHICLE PERMIT	R 598.90	520.79
6 - 12 MONTHS TEMPORARY VEHICLE PERMIT	R 1,213.75	1055.44
AIT COURSE 2 YRS	R 378.97	329.54
AVOP COURSE 2 YRS	R 378.97	329.54
AIT REFRESHER COURSE 2 YRS	R 265.28	230.68
AVOP REFRESHER COURSE 2 YRS	R 265.28	230.68
NON ATTENDANCE OF AIT & AVOP COURSE	R 3,550.75	
DAMAGED PERMIT - REPRINT	R 145.52	126.54
CATEGORY UPGRADE	R 145.52	126.54
CELL PHONE PERMIT	61.17	53.19
LOST PERMIT1st	404.24	351.51
LOST PERMIT2nd	585.06	508.75

ANNEXURE: C (Safety file specifications)

No.	Document requested	Status received (Yes/ No/N/A)	Compliance Status/ Comments
1.	Mandatory OHS appointments	Yes	
	Section 16(1), 16(2) & 8(2)	Yes	
	SHE Representative	Yes	
	First Aider(s) (Must have formal competency)	Yes	

	Fire Marshall	Yes	
	Supervisors	Yes	
	Risk Assessor (Must have formal competency)	Yes	
	Incident Investigator	Yes	
	CR 24 & EMR 9 Electrical Tool Inspector	Yes	
	Portable (Hand) Tool inspector	Yes	
	Covid-19 compliance officer	N/A	
2.	Scope of work	Yes	
3.	Covid-19 Policy	N/A	
4.	Risk assessments with covid-19 risks	Yes	
5.	Equipment and tools list	Yes	
6.	Safe working procedures including covid-19 response procedure	Yes	
7.	Procedure for employees refusing to work due to covid-19	N/A	
8.	Toolbox talks	Yes	
9.	Induction records of employees on covid-19	N/A	
10.	Daily screening process for employees and visitors	N/A	
11.	PPE issue records for employees (inclusive of cloth masks)	Yes	
12.	ACSA Safety, Health, and Environmental Induction	Yes	
13.	Signed Section 37(2) Agreement (ACSA & Principal Contractor/Principal contractor & Subcontractor is sub-contracting)	Yes	
14.	Valid Letter of Good Standing	Yes	
15.	Method Statement	Yes	
16.	Project Specific SHE Plan	Yes	

17.	Valid Medicals fitness certificates as per Annexure 3 of the CR 2014 regulations	Yes	
18.	ID copies of the employees on-site	Yes	
19.	Pre-populated WCL2 form	Yes	
20.	Emergency Plan and Contact details for emergencies	Yes	
21.	Proof of competencies	Yes	
22.	Signed Environmental Terms and Conditions to Commence Work – EMS 048 attached	Yes	
23.	Select relevant high-risk activity to be performed. • Other • Hot Asphalt • Machinery (Roller) • Road marking	X X X	