

Surface repairs to roads, sidewalks and trench re-instatements as and when required on various roads within the North Central Region of Ethekewini Municipality for 24 months.

## BILL OF QUANTITIES

### SECTION 1      Preliminary and General

#### PART      AA      PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Preliminaries:</u></b>				
1	PS.AA.8	Contractor fixed obligations	sum	1		
2	PS.AA.9	Time Related Obligations	months	24		
3	PS.AA.12	Provision for CLO as per Engineers instruction (Proof of hours worked to be attached to claim) Allow for a CLO to be appointed	PC Sum	288000	1.00	288,000.00

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General

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#### PART      AB      GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AB.10	Contractors superintendance including transport and communication	months	24		
2	PS.AB.11	Provide security	months	24		
		<b><u>Road maintenance Inspection</u></b>				
3	PS.AB.12	(i) Submission of inspection photos and measurements. :The contractor is required to submit a minimum of not less than 20 photos and measurement per week	week	104		
4	PS.AB.13	(ii) Submission of before and after photos. : The contractor is required to submit photos of before and after work has been completed.	months	104		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General

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#### PART      AH      OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Occupational Health and Safety:</u></b>				
1	AH.14.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General

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**SECTION 2 Asphalt Surface Repairs (Roads and Sidewalks)**

**PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Repairs to Road</u></b>				
1	PS.ED.9	Category 'B' full depth repair 150mm crusher run and 160mm asphalt	m2	1500		
2	PS.ED.9	Category 'C' full depth repair 150mm crusher run and 80mm asphalt	m2	2000		
3	PS.ED.9	Category 'D' full depth repair 150mm crusher run and 50mm asphalt	m2	1000		
4	PS.ED.9 and 10	Replacement of existing asphalt surface only at 160mm depth	m2	1500		
5	PS.ED.9 and 10	Replacement of existing asphalt surface only at 80mm depth	m2	1600		
6	PS.ED	Replacement of existing asphalt surface only at 50mm depth	m2	1400		
		<b><u>Repairs to Sidewalks</u></b>				
7	EG.5.1	Category 'E' full depth repair 100mm crusher run and 25mm asphalt	m2	1600		
8	PS.ED.9 and 10	Replacement of existing asphalt surface only at 25mm depth	m2	2200		
9	PS.ED.9	Extruded asphalt haunch/kerb 150mm high profile	m	360		
10	PS.ED	Supply of Cold mix and/or hot mix for repairs of potholes less than 1m2	m2	400		
11	PS.ED.11	Saw cutting in asphalt where instructed by the Engineer 50mm - 100mm depth	m	120		
12	PS.ED	Application of weed killer per Engineer instructions	m2	500		

TOTAL CARRIED TO SECTION 2 SUMMARY: Asphalt Surface Repairs (Roads and Sidewalks)

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**PART S REINSTATEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.ED.12	Category 'B' C.P.M repair 160mm asphalt only	m2	400		
2	PS.ED.12	Category 'C' C.P.M repair 80mm asphalt only	m2	400		
3	PS.ED.12	Category 'D' C.P.M repair 50mm asphalt only	m2	600		
4	PS.ED.12	Category 'E' C.P.M repair 30mm asphalt only	m2	600		
5	PS.ED.12	Category 'B' repair 160mm asphalt and 150mm G2	m2	400		

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Part Continued **PART S REINSTATEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
6	PS.ED.12	Catergory 'C' repair 80mm asphalt and 150mm G2	m2	400		
7	PS.ED.12	Catergory 'D' repair 50mm asphalt and 150mm G2	m2	2000		
8	PS.ED.12	Catergory 'E' repair 25mm asphalt and 100mm G2	m2	400		

**TOTAL CARRIED TO SECTION 2 SUMMARY: Asphalt Surface Repairs (Roads and Sidewalks)**

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**SECTION 3 Concrete and Paving Repairs**

**PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Sidewalks, Footpaths and Median Areas:</u></b>				
1	EG.5.2	Replacement of precast concrete slabs (from 450mm x 450mm to 610mm x 610mm)	m2	2500		
2	EG.5.3	Supply and lay clay brick pavers all type	m2	500		
3	EG.5.3	Supply and lay concrete brick pavers all type	m2	500		
4	EG.5.2	Supply and lay exposed aggregate slabs (from 450mm x 450mm to 600mm x 600mm)	m2	2000		
5	PS.ED.	Supply and place exposed aggregate bollards	no.	2000		
6	PS.ED.15	Supply and lay precast concrete barrier kerb (Fig.6)	m	4800		
7	PS.ED.16	Supply and lay precast concrete barrier kerb (Fig.8)	m	600		
8	PS.ED.14	Cast in-situ concrete (25/19) 100mm thick wood floated finish and jointed to suit surrounding	m2	2250		
9	PS.ED.14	Cast in situ concrete (100mm wide) fillet	m2	300		
10	PS.ED.14	Cast in situ concrete (300mm wide)	m2	525		
11	PS.ED.13	Saw cut to 100mm depth in concrete paving where necessary	m	1500		
12	PS.ED.17	Reset pavers, all types	m2	750		

TOTAL CARRIED TO SECTION 3 SUMMARY: Concrete and Paving Repairs

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**SECTION 4 Rehabilitation of Various roads**

**PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>Saw-cutting existing materials within the following average depth ranges</u></b>				
1	C4.3.4	(a) Not exceeding 50mm	m	200		
2	C4.3.4	(b) Exceeding 50 mm but not exceeding 100 mm	m	200		
3	C4.3.4	(c) Exceeding 100 mm	m	200		
		<b><u>Providing the milling machine on the site</u></b>				
4	C4.3.5	(a) Small milling machine with a cutting width of 1,2 m or smaller	day	30		
5	C4.3.5	(b) Large milling machine with a cutting width exceeding 1,2 m	day	30		
		<b><u>Milling and removal of existing asphalt layers with an average milling depth (Contractor takes ownership)</u></b>				
6	C4.3.6	(i) Not exceeding 50 mm	no.	50		
7	C4.3.6	(ii) Exceeding 50 mm but not exceeding 100 mm	no.	100		
8	C4.3.6	(iii) Exceeding 100 mm	no.	500		
		<b><u>Supply and Lay the following asphalt mixes by paver from commercial sources:</u></b>				
		<b><u>a) Sand Skeleton Asphalt Layers (Continuously Graded Asphalt)</u></b>				
9	C9.1.5	(i) Sa-S10	t	500		
10	C9.1.5	(ii) Sa-S14	t	250		
		<b><u>(b) Stone Skeleton Asphalt Layers</u></b>				
11	C9.1.5	(i) SMA-V10	t	500		
12	C9.1.5	(ii) SMA-V14	t	50		
		<b><u>Supply and Lay the following asphalt mixes from Ethekwini Municipality Asphalt Plant (Collect and Deliver): (a) By paver</u></b>				
13	C9.1.5	(i) Sa-S14	t	25		
14	C9.1.5	(ii) Sa-S10	t	25		
		<b><u>Tack Coat</u></b>				
15	C 9.1.6.10 (a)	Spray surface using 60% anionic stable grade emulsion @ 0,6 l/ m <sup>2</sup>	m <sup>2</sup>	5000		

TOTAL CARRIED TO SECTION 4 SUMMARY: Rehabilitation of Various roads

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