

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

BILL OF QUANTITIES

SECTION 1 Preliminary and General

PART AA PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Preliminaries:</u>				
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	270000	1.00	270,000.00

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 superintendence including transport and communication	months	24		
2	PS.AB.11	Provide security	months	24		

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
		<u>Occupational Health and Safety:</u>				
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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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 2 Asphalt Surface Repairs (Roads and Sidewalks)

PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
<u>Repairs to Road</u>						
1	PS.ED.9	Category 'B' full depth repair 150mm crusher run 160mm asphalt for greater than 5m ²	m ²	100		
2	PS.ED.9	Category 'B' full depth repair 150mm crusher run 160mm asphalt for less than 5m ²	m ²	100		
3	PS.ED.9	Category 'C' full depth repair 150mm crusher run 80mm asphalt for greater than 5m ²	m ²	1250		
4	PS.ED.9	Category 'C' full depth repair 150mm crusher run 80mm asphalt for less than 5m ²	m ²	1250		
5	PS.ED.9	Category 'D' full depth repair 150mm crusher run 50mm asphalt for greater than 5m ²	m ²	1250		
6	PS.ED.9	Category 'D' full depth repair 150mm crusher run 50mm asphalt for less than 5m ²	m ²	1250		
7	PS.ED.9 and 10	Replacement of existing asphalt surface only at 160mm depth for areas greater than 5m ²	m ²	200		
8	PS.ED.9 and 10	Replacement of existing asphalt surface only at 160mm depth for areas less than 5m ²	m ²	200		
9	PS.ED.9 and 10	Replacement of existing asphalt surface only at 80mm depth for areas greater than 5m ²	m ²	1250		
10	PS.ED.9 and 10	Replacement of existing asphalt surface only at 80mm depth for areas less than 5m ²	m ²	1250		
11	PS.ED	Replacement of existing asphalt surface only at 50mm depth for areas greater than 5m ²	m ²	1250		
12	PS.ED.9 and 10	Replacement of existing asphalt surface only at 50mm depth for areas less than 5m ²	m ²	1250		
<u>Repairs to Sidewalks</u>						
13	EG.5.1	Category 'E' full depth repair 100mm crusher run 25mm asphalt for greater than 5m ²	m ²	500		
14	EG.5.1	Category 'E' full depth repair 100mm crusher run 25mm asphalt for less than 5m ²	m ²	500		

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Part Continued **PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
15	PS.ED.9 and 10	Replacement of existing asphalt surface only at 25mm depth for areas greater than 5m2	m2	500		
16	PS.ED.9 and 10	Replacement of existing asphalt surface only at 25mm depth for areas less than 5m2	m2	500		
17	PS.ED.9	Extruded asphalt haunch/kerb 150mm high profile	m	100		
18	PS.ED	Supply of Cold mix and/or hot mix for repairs of potholes less than 1m2	m2	200		
19	PS.ED.11	Saw cutting in asphalt where instructed by the Engineer 50mm - 100mm depth	m	500		
20	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
		<u>C.P.M Trench Reinstatement (Asphalt Only)</u>				
1	PS.ED.12	Category 'A' C.P.M repair 240mm asphalt only for areas greater than 5m2	m2	100		
2	PS.ED.12	Category 'A' C.P.M repair 240mm asphalt only for areas less than 5m2	m2	100		
3	PS.ED.12	Category 'B' C.P.M repair 160mm asphalt only for areas greater than 5m2	m2	100		
4	PS.ED.12	Category 'B' C.P.M repair 160mm asphalt only for areas less than 5m2	m2	100		
5	PS.ED.12	Category 'C' C.P.M repair 80mm asphalt only for areas greater than 5m2	m2	100		
6	PS.ED.12	Category 'C' C.P.M repair 80mm asphalt only for areas less than 5m2	m2	100		
7	PS.ED.12	Category 'D' C.P.M repair 50mm asphalt only for areas greater than 5m2	m2	100		
8	PS.ED.12	Category 'D' C.P.M repair 50mm asphalt only for areas less than 5m2	m2	100		
9	PS.ED.12	Category 'E' C.P.M repair 30mm asphalt only for areas greater than 5m2	m2	100		
10	PS.ED.12	Category 'E' C.P.M repair 30mm asphalt only for areas less than 5m2	m2	100		
		<u>Trench Reinstatement including crusher run</u>				
11	PS.ED.12	Category 'A' repair 240mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		

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Part Continued **PART S REINSTATEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
12	PS.ED.12	Category 'A' repair 240mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
13	PS.ED.12	Category 'B' repair 160mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		
14	PS.ED.12	Category 'B' repair 160mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
15	PS.ED.12	Category 'C' repair 80mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		
16	PS.ED.12	Category 'C' repair 80mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
17	PS.ED.12	Category 'D' repair 50mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		
18	PS.ED.12	Category 'D' repair 50mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
19	PS.ED.12	Category 'E' repair 25mm asphalt and 100mm G2 for areas greater than 5m2	m2	100		
20	PS.ED.12	Category 'E' repair 25mm asphalt and 100mm G2 for areas less than 5m2	m2	100		

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
		<u>Sidewalks, Footpaths and Median Areas:</u>				
1	EG.5.2	Replacement of precast concrete slabs (from 450mm x 450mm to 610mm x 610mm)	m2	200		
2	EG.5.3	Supply and lay clay brick pavers	m2	200		
3	EG.5.3	Supply and lay concrete brick pavers	m2	200		
4	EG.5.3	Supply and lay concrete rumble stones	m2	100		
5	EG.5.3	Supply and lay concrete cobble stones	m2	20		
6	EG.5.3	Supply and lay brick margins	m	20		
7	EG.5.3	Supply and lay broadwalk pavers (220mm x 220mm)	m2	20		
8	EG.5.3	Supply and lay shepstone pavers (440mm x 440mm)	m2	20		
9	EG.5.2	Supply and lay exposed aggregate slabs (from 450mm x 450mm to 600mm x 600mm)	m2	200		
10	PS.ED.	Supply and place exposed aggregate bollards	no.	500		
11	PS.ED.15	Supply and lay precast concrete barrier kerb (Fig.6)	m	1000		
12	PS.ED.16	Supply and lay precast concrete barrier kerb (Fig.8)	m	100		
13	PS.ED.14	Cast in-situ concrete (25/19) 100mm thick wood floated finish and jointed to suit surrounding	m2	500		
14	PS.ED.14	Cast in situ concrete (100mm wide) fillet	m2	1000		
15	PS.ED.14	Cast in situ concrete (300mm wide)	m2	1000		
16	PS.ED.13	Saw cut to 100mm depth in concrete paving where necessary	m	500		
17	EG.8.3	Repair / replace expansion joints in concrete or brick paved areas to a depth of 100mm, including all cutting and sealing	m	100		
		<u>Reset as follows:</u>				
18	PS.ED.17	Reset precast concrete slabs	m2	500		
19	PS.ED.17	Reset pavers, all types	m2	500		
20	PS.ED.17	Reset exposed aggregate slabs	m2	500		
21	EG.5.3	Supply and Lay interlocking paving	m2	500		

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
22	PS.ED.18	Collect paving from Depot and lay	m2	250		

TOTAL CARRIED TO SECTION 3 SUMMARY: Concrete and Paving Repairs

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 4 Crack sealing

PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>LONGITUDINAL AND TRANSVERSE CRACKS</u>				
1	B48.14	Blowing/cleanng the cracks with compressed air, supply and application of all materials specified and of sealent CH-E1 (<3mm)	m	1500		
2	B48.14	Blowing/cleanng the cracks with compressed air, supply and application of all materials specified and of sealent CH-E1 (3-10mm)	m	1500		
3	B48.14	Blowing/cleanng the cracks with compressed air, supply and application of all materials specified and of sealent CH-E1 (11-20mm)	m	1500		
		<u>BLOCK CRACKS</u>				
4	B48.15	Cleanng cracks with compressed air and sealing of cracks using CH-E1 sealant	m2	1500		

TOTAL CARRIED TO SECTION 4 SUMMARY: Crack sealing

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 5 Stormwater Infrastructure Repairs

PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Remove damaged covers to spoil including lids and splays:</u>				
1	PS.PH.8.1	a) Heavy duty	no.	200		
2	PS.PH.8.1	b) Light duty	no.	200		
		<u>Remove damaged:</u>				
3	PS.PH.8.1	a) Bollards to spoil	no.	200		
4	PS.PH.8.1	b) Kerb to spoil	no.	200		
		<u>Reset as follows:</u>				
5	PS.PH.8.1	a) 1200mm x 1200mm heavy duty cover	no.	200		
6	PS.PH.8.1	b) 1200mm x 1200mm light duty cover	no.	100		
7	PS.PH.8.1	c) Heavy duty splay (Left and Right)	no.	100		
8	PS.PH.8.1	d) Light duty splay (Left and Right)	no.	200		
9	PS.PH.8.1	e) Heavy duty lid	no.	200		
10	PS.PH.8.1	f) Light duty lid	no.	200		
11	PS.PH.8.1	g) Reset Bollard	no.	200		
		<u>Lowering or Raising of covers:</u>				
12	PS.PH.8.1	a) Lowering or raising of 1200mm x 1200mm cover to match the sidewalk level maximum 200mm	no.	20		
13	PS.PH.8.1	b) Lowering or raising of 300mm x 300mm cover to match the sidewalk level .Rate to include changing cast iron cover and frame to polymer (supplied by Contractor) maximum 100mm	no.	20		
14	PS.PH.8.1	c) Lowering or raising of 600mm x 600mm cover to match the sidewalk level .Rate to include changing cast iron cover and frame to polymer (supplied by Contractor) maximum 100mm	no.	20		
15	PS.PH.8.1	d) Lowering or raising of 750mm x 750mm cover to match the sidewalk level .Rate to include changing cast iron cover and frame to polymer (supplied by Contractor) maximum 100mm	no.	20		
		<u>Supply and place 1200mm x 1200mm pre-cast covers to existing or modified stormwater inlets including lids:</u>				
16	PS.PH.8.1	a) Heavy duty	no.	450		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

Part Continued **PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
17	PS.PH.8.1	b) Light duty <u>Lids only:</u>	no.	450		
18	PS.PH.8.1	a) Heavy duty	no.	450		
19	PS.PH.8.1	b) Light duty	no.	450		
20	PS.PH.8.1	c) Replace light duty lids with lockable nylon locks (no metal)	no.	10		
21	PS.PH.8.1	d) Replace heavy duty lids with lockable nylon locks (no metal) <u>Supply and place left or right pre-cast concrete splays to existing or modified stormwater inlets:</u>	no.	10		
22	PS.PH.8.1	a) Heavy duty	no.	200		
23	PS.PH.8.1	b) Light duty	no.	200		
24	PS.PH.8.1	c) Supply and place concrete support beams to stormwater inlets	no.	100		
25	PS.PH.8.1	d) Supply and place standard pre-cast concrete bollards	no.	100		
26	PS.PH.8.1	e) Supply and place kerb to match existing	no.	50		
27	PS.PH.8.1	f) Supply and place light duty 2 x 2 (760mm x 760mm) manhole cover and lid	no.	50		
28	PS.PH.8.1	g) Supply and place heavy duty 2 x 2 (760mm x 760mm) manhole cover and lid <u>Supply and place polymer elements to match where required:</u>	no.	50		
29	PS.PH.8.1	a) 1200mm x 1200mm polymer cover	no.	20		
30	PS.PH.8.1	b) 1200mm x 1200mm polymer cover (lockable lids with nylon lock)	no.	20		
31	PS.PH.8.1	c) Polymer kerb piece	no.	20		
32	PS.PH.8.1	d) Left or right polymer splays to stormwater inlets <u>Supply and place Polymer frames and lids:</u>	no.	20		
33	PS.PH.8.1	a) 300mm x 300mm (medium duty)	no.	20		
34	PS.PH.8.1	b) 450mm x 450mm (medium duty)	no.	20		
35	PS.PH.8.1	c) 600mm x 600mm (medium duty)	no.	20		
36	PS.PH.8.1	d) 750mm x 750mm (medium duty)	no.	20		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

Part Continued **PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
37	PS.PH.8.1	e) 300mm x 300mm lockable	no.	20		
38	PS.PH.8.1	f) 450mm x 450mm lockable	no.	20		
39	PS.PH.8.1	g) 600mm x 600mm lockable (medium duty)	no.	20		
40	PS.PH.8.1	h) 750mm x 750mm lockable (medium duty)	no.	20		
41	PS.PH.8.1	i) Supply with T Handle Alan Key	no.	20		
		<u>Supply and place polymer lids including nylon lock:</u>				
42	PS.PH.8.1	a) 300mm x 300mm lockable	no.	20		
43	PS.PH.8.1	b) 450mm x 450mm lockable	no.	20		
44	PS.PH.8.1	c) 600mm x 600mm lockable (medium duty)	no.	20		
45	PS.PH.8.1	d) 750mm x 750mm lockable (medium duty)	no.	20		
		<u>Supply and place polymer lids without lock:</u>				
46	PS.PH.8.1	a) 300mm x 300mm	no.	10		
47	PS.PH.8.1	b) 450mm x 450mm	no.	10		
48	PS.PH.8.1	c) 600mm x 600mm	no.	10		
49	PS.PH.8.1	d) 750mm x 750mm	no.	10		
50	PS.PH.8.1	e) Supply and place type 2A Stormwater cover and frame (compression moulded)	no.	10		
51	PS.PH.8.1	f) Supply and place type 2B Stormwater cover and frame (compression moulded)	no.	10		
52	PS.PH.8.1	g) Supply and place Heavy Duty (DN9) Polymer frame and lid	no.	10		
53	PS.PH.8.1	h) Items above 50,51 and 52 (labour only)	no.	10		
54	PS.PH.8.1	i) Brickworks as required	no.	10		
		<u>Supply and place compression moulded polymer as follows:</u>				
55	PS.PH.8.1	a) 1200mm x 1200mm polymer cover	no.	10		
56	PS.PH.8.1	b) 1200mm x 1200mm polymer lids	no.	10		
57	PS.PH.8.1	c) Left or right polymer splays to stormwater inlets	no.	10		
58	PS.PH.8.1	d) Polymer kerb piece	no.	10		
59	PS.PH.8.1	e) Type 2A Stormwater cover and frame	no.	10		

MAINTENANNCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPLAITY FOR 24 MONTHS

Part Continued **PART PH MANHOLES and APPURTENANT DRAINAGE WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
60	PS.PH.8.1	f) Type 2B Stormwater cover and frame	no.	10		
61	PS.PH.8.1	g) DN9 Polymer frame and lid	no.	10		
62	PS.PH.8.1	Grid inlet	no.	10		
63		Supply and install 100mm cast iron pipes	m	10		
64		Supply and install cast iron couplers for 100mm pipe	no.	10		
65	PH.8.5.3	Supply and use 345 mm brickwork to [manhole/ headwall]	m2	100		
66	PH.8.5.3	Supply and use 465 mm brickwork to [manhole/ headwall]	m2	100		
67	PH.8.5.3	Supply and Use 575 mm brickwork to [manhole/ headwall]	m2	100		
68	AA.PH.[]	Construct standard inlet headwall as per drawing no.38572	no.	20		
69	AA.PH.[]	Construct standard outlet headwall as per drawing no.38576	no.	20		

TOTAL CARRIED TO SECTION 5 SUMMARY: Stormwater Infrastructure Repairs

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 6 Stormwater Cleaning

PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Cleaning of blocked stormwater manholes:</u>				
1	PS.SM.8.1	0.0 - 1.5m depth	no.	1000		
2	PS.SM.8.1	1.5m - 3m depth	no.	1000		
3	PS.SM.8.1	3m - 5m depth	no.	100		
4	PS.SM.8.1	5m - 10m depth	no.	10		
		<u>Cleaning of Blocked pipes:</u>				
5	PS.SM.8.1	0mm - 450mm diameter pipe	m	2000		
6	PS.SM.8.1	450mm - 600mm diameter pipe	m	2000		
7	PS.SM.8.1	600mm - 900mm diameter pipe	m	500		
8	PS.SM.8.1	Cleaning of pipe culvert	m3	50		
9	PS.SM.8.1	Cleaning of box/portal culvert	m3	50		
10	PS.SM.8.1	Cleaning of lined open drains	m3	300		

TOTAL CARRIED TO SECTION 6 SUMMARY: Stormwater Cleaning

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 7 Road Sign Maintenance

PART TA ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Road Signs maintenance as instructed:				
1	PS.TA.8.8.9	Supply and installation of 600mm traffic	no.	200		
2	PS.TA.8.8.10	Supply and installation of Creosote post 100-125mm of diameter up to 3300mm length	no.	200		
3	PS.TA.8.8.10	Supply and installation of 76mm diameter hot dipped galvanised post up to 3300mm length	no.	200		
4	PS.TA.8.8.11	Removal of damaged posts/signs	no.	200		
5	PS.TA.8.8.9	Supply and Installation of all 900mm traffic signs	no.	500		
6	PS.TA.8.8.9	Straightning/ alignment of all existing sign post	no.	200		
7	PS.TA.8.8.9	Supply and installation of uni-strut clamps (incl. S/S 304 M8 bolt,nut & washer)	no.	2000		
8	PS.TA.8.8.9	Supply and installation of M8 S/S 304 self tapping bolts	no.	2000		

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Sign Maintenance

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 8 Sand Cleaning

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Site Clearance:				
1	PS.B.8.2.1	Removal of sand from road channels and edges	m	100000		
2	PS.B.8.2.2	Trimming of encroachments on road edges and sidewalks	m	30000		
		Removal of Rubble from road reserve:				
3	PS.B.8.2.3	<1m3	m3	400		
4	PS.B.8.2.3	1-3m3	m3	300		
5	PS.B.8.2.3	>3m3	m3	200		
6	PS.B.8.2.4	Spraying of weed killer on road edges and channels (not exceeding 0.5m)	m	10000		
7	PS.B.8.2.4	Spraying of weed killer on sidewalks and harden surfaces	m2	10000		

TOTAL CARRIED TO SECTION 8 SUMMARY: Sand Cleaning

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 9 Road Marking

PART TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.TB.8.4	Remove existing lane, edge and painted island lines by grit blasting	m2	5000		
2	PS.TB.8.5	Setting out and premarking for lines	m	15000		
3	PS.TB.8.1.1	Painted road lines 100mm wide (White)	m	250000		
4	PS.TB.8.1.1	Painted road lines 100mm wide (yellow)	m	5000		
5	PS.TB.8.1.1	Painted road lines 100mm wide (red)	m	3000		
6	PS.TB.8.1.1	Painted road lines 150mm wide (white)	m	25000		
7	PS.TB.8.1.1	Painted road lines 150mm wide (yellow)	m	2000		
8	PS.TB.8.1.1	Painted road lines 150mm wide (red)	m	2000		
9	PS.TB.8.1.1	Painted road lines 200mm wide (white)	m	10000		
10	PS.TB.8.6	Removal of lines by black painting	m	1500		
11	PS.TB.8.1.1	Transverse lines and islands (regardless of colour and width)	m2	2500		
12	PS.TB.8.1.1	Lettering and symbols (regardless of the color and width)	m2	2500		
13	PS.TB.8.1.1	Painting of speed humps	m2	2500		

TOTAL CARRIED TO SECTION 9 SUMMARY: Road Marking

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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 10 Retaining structures

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Construct concrete edge beams (class 30MPa/19mm)	m3	200		
2	F.8.4	Supply and lay grouted stone pitching	m2	400		
3	F.8.6	Supply and lay PVC coated gabion boxes	m3	400		
4	F.8.6	Supply and lay PVC coated reno mattresses	m3	200		
5	PS.F.8.9	Supply and lay geofabric for item 3 and 4 (A4 or equivalent)	m2	500		
6	PS.F.4	supply and lay stackable TB300 loffelstein blocks (or approved equivalent) inclusive of sand filling as per detail 12:1 cement stabilised geofabric extended into fill and laid under 3rd row. Kaymatt U44 or approved weepholes at 1.0m c/c. Base type B including Mesh Ref 245, excavation and compaction of subgrade to 95% MOD A.A..S.H.T.O	m2	200		
7	PS.F.4	supply and lay stackable TB500 loffelstein blocks (or approved equivalent) inclusive of sand filling as per detail 12:1 cement stabilised geofabric extended into fill and laid under 3rd row. Kaymatt U44 or approved weepholes at 1.0m c/c. Base type B including Mesh Ref 245, excavation and compaction of subgrade to 95% MOD A.A..S.H.T.O	m2	200		
8		Dismantle existing gabion structure and recover handstone for re-use	m3	200		

TOTAL CARRIED TO SECTION 10 SUMMARY: Retaining structures

R

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 11 Earthworks

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.3	Backfill and compact using material from stockpile Backfill and compact using material from stockpile	m3	300		
2	DD.8.3	Backfill and compact using material imported from borrow pit	m3	300		
3	DD.8.3	Backfill and compact using imported material from contractor's own source. Rate to include all haulage and royalties	m3	450		
4	DD.8.2	Excavate in all material for structures to stockpile	m3	200		
5	DD.8.2	Excavate in all material for structures to spoil	m3	200		

TOTAL CARRIED TO SECTION 11 SUMMARY: Earthworks

R

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ABM AREAS LOCATED WITHIN THE NORTH REGION OF ETHEKWINI MUNICIPALITY FOR 24 MONTHS

SECTION 12 Guardrails

PART EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EH 8.1	Supply and installation of straight steel guard rails	m	2000		
2	EH 8.1	Supply and installation of curved steel guardrails	m	500		
3	EH.8.1	Supply and installation of fishtail End wings	no.	100		
4	EH.8.1	Supply and installation of precast concrete posts	no.	500		
5	EH.8.1	Removing damaged guardrails to depot yard.	m	1000		
6	EH.8.1	Removing damaged concrete post to spoil	no.	1000		

TOTAL CARRIED TO SECTION 12 SUMMARY: Guardrails

R