

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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	192000	1.00	192,000.00

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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 5m2	m2	50		
2	PS.ED.9	Category 'B' full depth repair 150mm crusher run 160mm asphalt for less than 5m2	m2	50		
3	PS.ED.9	Category 'C' full depth repair 150mm crusher run 80mm asphalt for greater than 5m2	m2	3000		
4	PS.ED.9	Category 'C' full depth repair 150mm crusher run 80mm asphalt for less than 5m2	m2	500		
5	PS.ED.9	Category 'D' full depth repair 150mm crusher run 50mm asphalt for greater than 5m2	m2	800		
6	PS.ED.9	Category 'D' full depth repair 150mm crusher run 50mm asphalt for less than 5m2	m2	500		
7	PS.ED.9 and 10	Replacement of existing asphalt surface only at 160mm depth for areas greater than 5m2	m2	50		
8	PS.ED.9 and 10	Replacement of existing asphalt surface only at 160mm depth for areas less than 5m2	m2	50		
9	PS.ED.9 and 10	Replacement of existing asphalt surface only at 80mm depth for areas greater than 5m2	m2	2000		
10	PS.ED.9 and 10	Replacement of existing asphalt surface only at 80mm depth for areas less than 5m2	m2	350		
11	PS.ED	Replacement of existing asphalt surface only at 50mm depth for areas greater than 5m2	m2	350		
12	PS.ED.9 and 10	Replacement of existing asphalt surface only at 50mm depth for areas less than 5m2	m2	200		
<u>Repairs to Sidewalks</u>						
13	EG.5.1	Category 'E' full depth repair 100mm crusher run 25mm asphalt for greater than 5m2	m2	3200		
14	EG.5.1	Category 'E' full depth repair 100mm crusher run 25mm asphalt for less than 5m2	m2	800		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS
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	1500		
16	PS.ED.9 and 10	Replacement of existing asphalt surface only at 25mm depth for areas less than 5m2	m2	1000		
17	PS.ED.9	Extruded asphalt haunch/kerb 150mm high profile	m	600		
18	PS.ED	Supply of Cold mix and/or hot mix for repairs of potholes less than 1m2	m2	250		
19	PS.ED.11	Saw cutting in asphalt where instructed by the Engineer 50mm - 100mm depth	m	800		
20	PS.ED	Application of weed killer per Engineer instructions	m2	200		

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	Catergory 'A' C.P.M repair 240mm asphalt only for areas greater than 5m2	m2	10		
2	PS.ED.12	Catergory 'A' C.P.M repair 240mm asphalt only for areas less than 5m2	m2	10		
3	PS.ED.12	Catergory 'B' C.P.M repair 160mm asphalt only for areas greater than 5m2	m2	100		
4	PS.ED.12	Catergory 'B' C.P.M repair 160mm asphalt only for areas less than 5m2	m2	100		
5	PS.ED.12	Catergory 'C' C.P.M repair 80mm asphalt only for areas greater than 5m2	m2	100		
6	PS.ED.12	Catergory 'C' C.P.M repair 80mm asphalt only for areas less than 5m2	m2	100		
7	PS.ED.12	Catergory 'D' C.P.M repair 50mm asphalt only for areas greater than 5m2	m2	100		
8	PS.ED.12	Catergory 'D' C.P.M repair 50mm asphalt only for areas less than 5m2	m2	100		
9	PS.ED.12	Catergory 'E' C.P.M repair 30mm asphalt only for areas greater than 5m2	m2	100		
10	PS.ED.12	Catergory 'E' C.P.M repair 30mm asphalt only for areas less than 5m2	m2	100		
		<u>Trecnch Reinstatement including crusher run</u>				
11	PS.ED.12	Catergory 'A' repair 240mm asphalt and 150mm G2 for areas greater than 5m2	m2	25		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

 Part Continued **PART** S REINSTATEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
12	PS.ED.12	Catergory 'A' repair 240mm asphalt and 150mm G2 for areas less than 5m2	m2	25		
13	PS.ED.12	Catergory 'B' repair 160mm asphalt and 150mm G2 for areas greater than 5m2	m2	150		
14	PS.ED.12	Catergory 'B' repair 160mm asphalt and 150mm G2 for areas less than 5m2	m2	150		
15	PS.ED.12	Catergory 'C' repair 80mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		
16	PS.ED.12	Catergory 'C' repair 80mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
17	PS.ED.12	Catergory 'D' repair 50mm asphalt and 150mm G2 for areas greater than 5m2	m2	100		
18	PS.ED.12	Catergory 'D' repair 50mm asphalt and 150mm G2 for areas less than 5m2	m2	100		
19	PS.ED.12	Catergory 'E' repair 25mm asphalt and 100mm G2 for areas greater than 5m2	m2	100		
20	PS.ED.12	Catergory '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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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

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	3500		
2	EG.5.3	Supply and lay clay brick pavers	m2	3500		
3	EG.5.3	Supply and lay concrete brick pavers	m2	1000		
4	EG.5.3	Supply and lay concrete rumble stones	m2	150		
5	EG.5.3	Supply and lay concrete cobble stones	m2	150		
6	EG.5.3	Supply and lay brick margins	m	400		
7	EG.5.3	Supply and lay broadwalk pavers (220mm x 220mm)	m2	400		
8	EG.5.3	Supply and lay shepstone pavers (440mm x 440mm)	m2	400		
9	EG.5.2	Supply and lay exposed aggregate slabs (from 450mm x 450mm to 600mm x 600mm)	m2	500		
10	PS.ED.	Supply and place exposed aggregate bollards	no.	200		
11	PS.ED.15	Supply and lay precast concrete barrier kerb (Fig.6)	m	800		
12	PS.ED.16	Supply and lay precast concrete barrier kerb (Fig.8)	m	400		
13	PS.ED.14	Cast in-situ concrete (25/19) 100mm thick wood floated finish and jointed to suit surrounding	m2	2000		
14	PS.ED.14	Cast in situ concrete (100mm wide) fillet	m2	250		
15	PS.ED.14	Cast in situ concrete (300mm wide)	m2	900		
16	PS.ED.13	Saw cut to 100mm depth in concrete paving where necessary	m	750		
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	500		
		<u>Reset as follows:</u>				
18	PS.ED.17	Reset precast concrete slabs	m2	800		
19	PS.ED.17	Reset pavers, all types	m2	1000		
20	PS.ED.17	Reset exposed aggregate slabs	m2	1000		

MAINTENANNCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

Part Continued PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
21	EG.5.3	Supply and Lay interlocking paving	m2	800		

TOTAL CARRIED TO SECTION 3 SUMMARY: Concrete and Paving Repairs R

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS
SECTION 4 Access Hardening
PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Access harding in Asphalt:</u>				
1	EG.5.4	Catergory 'D' (residential) full depth including kerb relay 150mm crusher run 50mm asphalt	m2	100		
2	EG.5.4	Catergory 'C' (commercial) full depth including kerb relay 150mm crusher run 80mm asphalt	m2	100		
3	EG.5.4	Catergory 'B' (industrial) full depth including kerb relay 150mm crusher run 160mm asphalt	m2	100		
		<u>Access harding in Concrete:</u>				
4	EG.5.5	Residential - full depth including kerb relay 150mm crusher run 100mm concrete	m2	50		
5	EG.5.5	Commercial - full depth including kerb relay 150mm crusher run 100mm concrete	m2	100		
6	EG.5.5	Industrial- full depth including kerb relay 150mm crusher run 125mm concrete	m2	100		

TOTAL CARRIED TO SECTION 4 SUMMARY: Access Hardening
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MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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.	150		
2	PS.PH.8.1	b) Light duty	no.	700		
		<u>Remove damaged:</u>				
3	PS.PH.8.1	a) Bollards to spoil	no.	150		
4	PS.PH.8.1	b) Kerb to spoil	no.	150		
		<u>Reset as follows:</u>				
5	PS.PH.8.1	a) 1200mm x 1200mm heavy duty cover	no.	150		
6	PS.PH.8.1	b) 1200mm x 1200mm light duty cover	no.	200		
7	PS.PH.8.1	c) Heavy duty splay (Left and Right)	no.	150		
8	PS.PH.8.1	d) Light duty splay (Left and Right)	no.	200		
9	PS.PH.8.1	e) Heavy duty lid	no.	125		
10	PS.PH.8.1	f) Light duty lid	no.	300		
11	PS.PH.8.1	g) Reset Bollard	no.	450		
		<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.	200		
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.	250		
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.	300		
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.	55		
		<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.	100		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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	no.	350		
		<u>Lids only:</u>				
18	PS.PH.8.1	a) Heavy duty	no.	80		
19	PS.PH.8.1	b) Light duty	no.	950		
20	PS.PH.8.1	c) Replace light duty lids with lockable nylon locks (no metal)	no.	200		
21	PS.PH.8.1	d) Replace heavy duty lids with lockable nylon locks (no metal)	no.	150		
		<u>Supply and place left or right pre-cast concrete splays to existing or modified stormwater inlets:</u>				
22	PS.PH.8.1	a) Heavy duty	no.	120		
23	PS.PH.8.1	b) Light duty	no.	250		
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.	100		
27	PS.PH.8.1	f) Supply and place light duty 2 x 2 (760mm x 760mm) manhole cover and lid	no.	100		
28	PS.PH.8.1	g) Supply and place heavy duty 2 x 2 (760mm x 760mm) manhole cover and lid	no.	75		
		<u>Supply and place polymer elements to match where required:</u>				
29	PS.PH.8.1	a) 1200mm x 1200mm polymer cover	no.	100		
30	PS.PH.8.1	b) 1200mm x 1200mm polymer cover (lockable lids with nylon lock)	no.	100		
31	PS.PH.8.1	c) Polymer kerb piece	no.	50		
32	PS.PH.8.1	d) Left or right polymer splays to stormwater inlets	no.	75		
		<u>Supply and place Polymer frames and lids:</u>				
33	PS.PH.8.1	a) 300mm x 300mm (medium duty)	no.	190		
34	PS.PH.8.1	b) 450mm x 450mm (medium duty)	no.	260		
35	PS.PH.8.1	c) 600mm x 600mm (medium duty)	no.	50		
36	PS.PH.8.1	d) 750mm x 750mm (medium duty)	no.	50		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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.	100		
38	PS.PH.8.1	f) 450mm x 450mm lockable	no.	150		
39	PS.PH.8.1	g) 600mm x 600mm lockable (medium duty)	no.	100		
40	PS.PH.8.1	h) 750mm x 750mm lockable (medium duty)	no.	50		
41	PS.PH.8.1	i) Supply with T Handle Alan Key	no.	3		
		<u>Supply and place polymer lids including nylon lock:</u>				
42	PS.PH.8.1	a) 300mm x 300mm lockable	no.	100		
43	PS.PH.8.1	b) 450mm x 450mm lockable	no.	50		
44	PS.PH.8.1	c) 600mm x 600mm lockable (medium duty)	no.	25		
45	PS.PH.8.1	d) 750mm x 750mm lockable (medium duty)	no.	15		
		<u>Supply and place polymer lids without lock:</u>				
46	PS.PH.8.1	a) 300mm x 300mm	no.	65		
47	PS.PH.8.1	b) 450mm x 450mm	no.	25		
48	PS.PH.8.1	c) 600mm x 600mm	no.	25		
49	PS.PH.8.1	d) 750mm x 750mm	no.	15		
50	PS.PH.8.1	e) Supply and place type 2A Stormwater cover and frame (compression moulded)	no.	62		
51	PS.PH.8.1	f) Supply and place type 2B Stormwater cover and frame (compression moulded)	no.	35		
52	PS.PH.8.1	g) Supply and place Heavy Duty (DN9) Polymer frame and lid	no.	25		
53	PS.PH.8.1	h) Items above 50,51 and 52 (labour only)	no.	15		
54	PS.PH.8.1	i) Brickworks as required	no.	590		
		<u>Supply and place compression moulded polymer as follows:</u>				
55	PS.PH.8.1	a) 1200mm x 1200mm polymer cover	no.	15		
56	PS.PH.8.1	b) 1200mm x 1200mm polymer lids	no.	15		
57	PS.PH.8.1	c) Left or right polymer splays to stormwater inlets	no.	20		
58	PS.PH.8.1	d) Polymer kerb piece	no.	15		
59	PS.PH.8.1	e) Type 2A Stormwater cover and frame	no.	15		

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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.	15		
61	PS.PH.8.1	g) DN9 Polymer frame and lid	no.	10		
62	PS.PH.8.1	Grid inlet	no.	25		
63		Supply and install 100mm cast iron pipes	m	30		
64		Supply and install cast iron couplers for 100mm pipe	no.	15		

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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.	150		
2	PS.SM.8.1	1.5m - 3m depth	no.	100		
3	PS.SM.8.1	3m - 5m depth	no.	100		
4	PS.SM.8.1	5m - 10m depth	no.	50		
		<u>Cleaning of Blocked pipes:</u>				
5	PS.SM.8.1	0mm - 450mm diameter pipe	no.	50		
6	PS.SM.8.1	450mm - 600mm diameter pipe	no.	50		
7	PS.SM.8.1	600mm - 900mm diameter pipe	no.	10		
8	PS.SM.8.1	Cleaning of pipe culvert	m3	30		
9	PS.SM.8.1	Cleaning of box/portal culvert	m3	25		
10	PS.SM.8.1	Cleaning of lined open drains	m3	1000		

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

SECTION 7 Road Sign Maintenance

PART TA ROAD SIGNS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Road Signs maintenance as instructed:</u>				
1	PS.TA.8.8.9	Installation/Straighting/replacement of road signs and the supply of hot dipped Galvanised Brackets and fasteners with bolts and nuts for double sided and single sided signs (include skew for signs). (The rate paid shall be cost +10% of material).	no.	100		
2	PS.TA.8.8.10	Supply and installation of Creosote post 125-150mm of diameter up to 3300mm length	no.	25		
3	PS.TA.8.8.10	Supply and installation of 76mm diameter hot dipped galvanised post up to 3300mm length	no.	25		
4	PS.TA.8.8.11	Removal of damaged posts/signs	no.	60		

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

SECTION 8 Sand Cleaning

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Site Clearance:</u>				
1	PS.B.8.2.1	Removal of sand from road channels and edges	m	60000		
2	PS.B.8.2.2	Trimming of encroachments on road edges and sidewalks	m	1500		
		<u>Removal of Rubble from road reserve:</u>				
3	PS.B.8.2.3	<1m3	m3	500		
4	PS.B.8.2.3	1-3m3	m3	150		
5	PS.B.8.2.3	>3m3	m3	100		

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA 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	100		
2	PS.TB.8.5	Setting out and premarking for lines	m	500		
3	PS.TB.8.1.1	Painted road lines 100mm wide (White)	m	10000		
4	PS.TB.8.1.1	Painted road lines 100mm wide (yellow)	m	1000		
5	PS.TB.8.1.1	Painted road lines 100mm wide (red)	m	1000		
6	PS.TB.8.1.1	Painted road lines 150mm wide (white)	m	2500		
7	PS.TB.8.1.1	Painted road lines 150mm wide (yellow)	m	1000		
8	PS.TB.8.1.1	Painted road lines 150mm wide (red)	m	1000		
9	PS.TB.8.1.1	Painted road lines 200mm wide (white)	m	500		
10	PS.TB.8.6	Removal of lines by black painting	m	100		
11	PS.TB.8.1.1	Traverse lines and islands	m	500		
12	PS.TB.8.1.1	Lettering and symbols (regardless of the color)	m2	1000		
13	PS.TB.8.1.1	Painting of speed humps	m2	500		

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 ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS
SECTION 10 Maydon Road A1 Barrier anchorage
PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>Existing barrier new base construction (Barrier Anchorage)</u>				
1		Excavate for footing	m3	180		
2		relocate barrier to sidewalk and reposition into footing when constructed	m2	65		
3	C.8.1	Grade 15/19 concrete blinding of thickness 50mm	m2	567		
4	C.8.1	Grade 30/19 concrete in footing	m3	170.1		
5	C.8.1	Grade 30/19 concrete to encase steel coupling	m3	12.6		
6	C.8.2	High tensile steel reinforcement	t	0.693		
7	C.8.2	Mild steel reinforcement	t	1.386		
8	C.8.2	High tensile steel fabric reinforcement ref:395	t	6.3		
9	C.8.3	Class 1 shuttering to footing	m2	315		
10	B.8.2	General clearing and Grubbing for footing	m2	567		
		<u>New base and barrier (4M barrier details)</u>				
11		Excavate for bases	m3	100		
12	C.8.1	Grade 15/19 concrete blinding of thickness 50mm	m2	350		
13	C.8.1	Grade 30/19 concrete in footing	m3	100		
14	PS.C.5	Grade 40/19 cast insitu F-Shape barrier (815mm high), as per drawing	m	200		
15	C.8.2	High tensile steel reinforcement	t	12		
16	C.8.2	High tensile steel fabric reinforcement ref:395	t	2.5		
17	C.8.3	Class 1 shuttering to footing	m2	175		
18	B.8.2	General clearing and Grubbing for footing	m2	375		

TOTAL CARRIED TO SECTION 10 SUMMARY: Maydon Road A1 Barrier anchorage
R

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

SECTION 11 Pitching, Stonework and protection against erosion

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Construct concrete edge beams (class 30MPa/19mm)	m3	30		
2	F.8.4	Supply and lay grouted stone pitching	m2	100		
3	F.8.6	Supply and lay PVC coated gabion boxes	m3	60		
4	F.8.6	Supply and lay PVC coated reno mattresses	m3	60		
5	PS.F.8.9	Supply and lay geofabric for item 3 and 4 (A4 or equivalent)	m2	100		
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	100		
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	100		
8		Dismantle existing gabion structure and recover handstone for re-use	m3	100		

TOTAL CARRIED TO SECTION 11 SUMMARY: Pitching, Stonework and protection against erosion

R

MAINTENANCE REPAIRS OF ROADS AND STORMWATER INFRASTRUCTURE AS AND WHEN REQUIRED IN THE ITRUMP, AREA BASED MANAGEMENT AND MAYDON WHARF AREA FOR 24 MONTHS

SUMMARY OF BILL OF QUANTITIES

1	Preliminary and General		R	
	AA PRELIMINARIES	R		
	AB GENERAL SPECIFICATIONS	R		
	AH OCCUPATIONAL HEALTH and SAFETY	R		
2	Asphalt Surface Repairs (Roads and Sidewalks)		R	
	ED ROAD ASPHALT	R		
	S REINSTATEMENT	R		
3	Concrete and Paving Repairs		R	
	EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		
4	Access Hardening		R	
	EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		
5	Stormwater Infrastructure Repairs		R	
	PH MANHOLES and APPURTENANT DRAINAGE WORKS	R		
6	Stormwater Cleaning		R	
	PH MANHOLES and APPURTENANT DRAINAGE WORKS	R		
7	Road Sign Maintenance		R	
	TA ROAD SIGNS	R		
8	Sand Cleaning		R	
	B SITE CLEARANCE	R		
9	Road Marking		R	
	TB ROAD MARKINGS	R		
10	Maydon Road A1 Barrier anchorage		R	
	C CONCRETE WORK	R		
11	Pitching, Stonework and protection against erosion		R	
	F PROTECTION WORKS	R		
SUB TOTAL			R	
ADD VAT (15%) - (only if a registered VAT Vendor)			R	
TOTAL CARRIED TO FORM OF TENDER			R	