

1M-35896 WEST CENTRAL REGION BOQ

Section 1 : PRELIMINARY AND GENERAL

PART: AA PRELIMINARY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AA.8	Contractors Fixed Obligation	sum	1		
2	PS.AA.9	Time Related Obligation	month	36		
3	PS.AA.12	Provision of CLO as per Engineers Instruction (proof of hours worked to be attached to claim) Allow for CLO to be attached	PC Sum	500000	R1.00	R500,000.00
					Total	

PART AB GENERAL SPECIFICATION

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AB.10	Contractors superintendence including transport and communication	months	36		
2	PS.AB.11	Provide security	months	36		
					Total	

PART AH OCCUPATIONAL HEALTH AND SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AH.14.1	Contractors initial health in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2	Contractors time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3	Submission of Health and Safety file	sum	1		
					Total	

Section2: ROADS

Part AA ROAD ASPHALT

ITEM	CLAUSE	Description	Unit	Quantity	Rate	Amount
1	Part EB of standard	Category 'B' Full Depth Repair 150mm crusher run, 160mm Asphalt	m ²	200		
2	Part EB of standard	Category 'C' Full Depth Repair 150mm crusher run, 80mm Asphalt	m ²	5000		
3	Part EB of standard	Category 'D' Full Depth Repair 150mm crusher run, 50mm Asphalt	m ²	1000		
4	Part EB of standard	Replacement of Existing Asphalt Surface only at 160mm Depth	m ²	100		
5	Part EB of standard	Replacement of Existing Asphalt Surface only at 80mm Depth	m ²	5000		
6	Part EB of standard	Replacement of Existing Asphalt Surface only at 50mm Depth	m ²	1000		
		Repairs to Sidewalk				
7	EG.5.1	Category 'E' full depth repair 100mm crusher run 25mm asphalt	m ²	2000		
8	PS.ED9 & 10	Replacement of existing asphalt surface only at 25mm depth	m ²	1000		
9	PS.ED.9	Extruded asphalt haunch/kerb 150mm high profile	m	100		
10	PS.ED.10	Supply of hot mix for repairs of potholes less than 1m ²	m ²	500		
11	PS.ED.14.	Supply of Cold mix for repairs of potholes less than 1m ²	m ²	500		

12	PS.ED.11	Saw cutting in asphalt where instructed by the Engineer 50mm-100mm depth	m	500		
13	PS.ED.5.1.1	Weed Killer	m2	500		
					Total	

C.P.M TRENCH REINSTATEMENT

Part ED

ROAD ASPHALT

ITEM	CLAUSE	Description	Unit	Quantity	Rate	Amount
1	& Part EB of standard	Category 'A' C.P.M Repair 240mm Asphalt only	m ²	5		
2	& Part EB of standard	Category 'B' C.P.M Repair 160mm Asphalt only	m ²	50		
3	& Part EB of standard	Category 'C' C.P.M Repair 80mm Asphalt only	m ²	800		
4	& Part EB of standard	Category 'D' C.P.M Repair 50mm Asphalt only	m ²	500		
5	& Part EB of standard	Category 'E' C.P.M Repair 30mm Asphalt only	m ²	200		
		Trench reinstatement including crusher run				
6	PS.ED.12	Category 'A' repair 240mm asphalt and 150mm G2	m2	5		
7	PS.ED.12	Category 'B' repair 160mm asphalt and 150mm G2	m2	200		
8	PS.ED.12	Category 'C' repair 80mm asphalt and 150mm G2	m2	500		
9	PS.ED.12	Category 'D' repair 50mm asphalt and 150mm G2	m2	500		
10	PS.ED.12	Category 'E' repair 25mm asphalt and 150mm G2	m2	500		
11	PS.DD.8.11.1	Supply, Backfilling and Compaction of trenches, reinstatements, undermining using G5 material supplied by the contractor	m3	200		
12	PS.DD.8.11.1	Supply, Backfilling and Compaction of trenches, reinstatements, undermining using G2 material supplied by the contractor	m3	200		
					Total	

SECTION 3: CONCRETE PAVING REPAIRS

PART EG SIDEWALK, FOOTPATHS AND MEDI

ITEM	CLAUSE	Description	Unit	Quantity	Rate	Amount
1	EG.8.2	Replacement of precast concrete slabs (from 450mm x 450mm to 610mm x 610mm)	m2	500		
2	EG.8.4	Supply and lay claybricks pavers	m2	1000		
3	EG.8.4	Supply and lay concrete bricks paver	m2	1000		
4	EG.8.4	Supply and lay concrete rumble stones	m2	50		
5	EG.8.4	Supply and lay concrete coble stones	m2	50		
6	EG.8.4	Supply and lay brick margins	m	50		
7	EG.8.4	Supply and lay broadwalk pavers (220mm x 220mm)	m2	250		
8	EG.8.4	Supply and lay shepstone pavers (440mm x 440mm)	m2	250		
9	EG.8.4	Supply and lay interlocking paving	m2	250		
10	EG.8.2	Supply and lay exposed aggregate slabs (from 450mm x 450mm to 600mm x 600mm)	m2	5		
11	PS.ED	Supply and place exposed aggregate bollards	no.	5		

12	PS.ED.15	Supply and lay precast concrete barrier kerb (Fig.6)	m	3000		
13	PS.ED.16	Supply and lay precast concrete barrirer kerb (Fig.8)	m	250		
14	PS.ED.14	Cast in-situ concrete (25/19) 100mm thick wood floated finish and jointed to suit surrounding	m2	3000		
15	PS.ED.14	Cast in situ concrete (100mm wide) fiilet	m2	250		
16	PS.ED.14	Cast in situ concrete (300mm wide) fiilet	m2	500		
17	PS.ED.13	Saw cut up to 100mm depth in concrete paving where neccesary	m	200		
18	EG.8.3	Repair/replace expansion joints in concrete or brick paved areas to a depth of 100mm, including all cutting and sealing	m	50		
		Reset as follows:				
19	PS.ED.17	Reset precast concrete slabs	m2	100		
20	PS.ED.17	Reset pavers, all types	m2	1000		
21	PS.ED.17	Reset exposed aggregates slabs	m2	10		
					Total	

Section4 : Access Hardening

PART EG SIDEWALK, FOOTPATHS AND MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
ACCESS HARDENING						
1	E.G.5.4	Catergory 'D' (residential) full depth including kerb relay 150mm crusher run 50mm asphalt	m2	100		
2	E.G.5.4	Catergory 'C' (commercial) full depth including kerb relay 150mm crusher run 80mm asphalt	m2	100		
3	E.G.5.4	Catergory 'B' (industrial) full depth including kerb relay 150mm crusher run 160mm asphalt	m2	100		
		Access Hardening in concrete				
4	E.G.5.5	Residential- full depth including kerb relay 150mm crusher run 100mm concrete	m2	50		
5	E.G.5.5	Commertial- full depth including kerb relay 150mm crusher run 100mm concrete	m2	50		
6	E.G.5.5	industrial- full depth including kerb relay 150mm crusher run 125mm concrete	m2	10		
					Total	

Section5 : Stormwater Infrastructure Repairs

Part AH MANHOLES AND APPERNANT DRAINAGE

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Remove damaged covers to spoil including lids and splays				
1	PS.PH.5.12	a) Heavy Duty	no.	250		
2	PS.PH.5.12	b) Light Duty	no.	250		
		Remove Damaged				
3	PS.PH.5.12	a) Bollards to spoil	no.	250		
4	PS.PH.5.12	b) Kerb to spoil	no.	3000		
		Reset as follows				

5	PS.PH.5.13	a) 1200mm x 1200 mm heavy duty cover	no.	250		
6	PS.PH.5.13	a) 1200mm x 1200 mm light duty cover	no.	250		
7	PS.PH.5.13	c) Heavy Duty splay (Left or Right)	no.	100		
8	PS.PH.5.13	d) Light Duty splay (Left or Right)	no.	100		
9	PS.PH.5.13	e) Heavy Duty Lid	no.	100		
10	PS.PH.5.13	f) Light Duty Lid	no.	100		
11	PS.PH.5.13	g) Reset Bollard	no.	100		
		Lowering and Raising of Covers				
12	PS.PH.5.10	a) Lowering or Raising of 1200 x 1200mm cover to match the sidewalk level maximum 200mm	no.	20		
13	PS.PH.5.10	level. Rate to include changing cast iron cover and frame to polymer (Supplied by Contractor) maximum 100mm	no.	20		
14	PS.PH.5.10	level. Rate to include changing cast iron cover and frame to polymer (Supplied by Contractor) maximum 100mm	no.	20		
15	PS.PH.5.10	level. Rate to include changing cast iron cover and frame to polymer (Supplied by Contractor) maximum 100mm	no.	20		
		Supply and place 1200mm x 1200mm pre-cast covers to existing or modified stormwater inlets including lids:				
16	PS.PH.5.14	a) Heavy Duty	no.	500		
17	PS.PH.5.14	b) Light Duty	no.	250		
		Lids Only:				
18	PS.PH.5.14	a) Heavy Duty	no.	100		
19	PS.PH.5.14	b) Light Duty	no.	100		
20	PS.PH.5.14	c) Replace light duty lids with lockable nylon locks (no metal)	no.	10		
21	PS.PH.5.14	d) Replace heavy duty lids with lockable nylon locks (no metal)	no.	10		
		Supply and place left or right pre-cast concrete splays to existing or modified stormwater inlets:				
22	PS.PH.5.14	a) Heavy Duty	no.	250		
23	PS.PH.5.14	b) Light Duty	no.	250		
24	PS.PH.5.14	c) Supply place concrete support beams to stormwater inlets	no.	150		
25	PS.PH.5.14	d) Supply and place standard pre-cast concrete bollards	no.	150		
26	PS.PH.5.14	e) Supply and place kerb to match existing	no.	300		
27	PS.PH.5.14	f) Supply and place light duty 2 x2 (760mm x 760mm) manhole cover and lid	no.	20		
28	PS.PH.5.14	g) Supply and place heavy duty 2 x2 (760mm x 760mm) manhole cover and lid	no.	20		
		Supply and place polymer elements to match where required				
29	PS.PH.5.15	a) 1200 mm x 1200mm polymer cover	no.	20		
30	PS.PH.5.15	b) 1200mm x 1200mm polymer cover (lockable lids with nylon lock)	no.	20		
31	PS.PH.5.15	c) Polymer kerb piece	no.	20		
32	PS.PH.5.15	d) Left or Right polymer splays to stormwater inlets	no.	20		
		Supply and place Polymer frames and lids				

33	PS.PH.5.15	a) 300mm x 300mm (medium duty)	no.	100		
34	PS.PH.5.15	b) 450mm x 450mm (medium duty)	no.	100		
35	PS.PH.5.15	c) 600mm x 600mm (medium duty)	no.	100		
36	PS.PH.5.15	d) 750mm x 750mm (medium duty)	no.	100		
37	PS.PH.5.15	e) 300mm x 300mm lockable	no.	100		
38	PS.PH.5.15	d) 450mm x 450mm lockable	no.	100		
39	PS.PH.5.15	e) 600mm x 600mm lockable (medium duty)	no.	100		
40	PS.PH.5.15	e) 750mm x 750mm lockable (medium duty)	no.	100		
41	PS.PH.5.16	Supply with T Handle Alan Key	no.	100		
		Supply and place polymer lids including nylon locks				
42	PS.PH.5.15	a) 300mm x 300mm lockable	no.	50		
43	PS.PH.5.15	b) 450mm x 450mm lockable	no.	50		
44	PS.PH.5.15	c) 600mm x 600mm (medium duty)	no.	50		
45	PS.PH.5.15	d) 750mm x 750mm (medium duty)	no.	50		
		Supply and place polymer without lids:				
46	PS.PH.5.15	a) 300mm x 300mm	no.	50		
47	PS.PH.5.15	b) 450mm x 450mm	no.	50		
48	PS.PH.5.15	c) 600 x 600	no.	50		
49	PS.PH.5.15	d) 750mm x 750mm	no.	50		
		Supply and place compression moulded polymer as follows:				
50	PS.PH.5.15	a) 1200mm x 1200mm polymer cover	no.	50		
51	PS.PH.5.15	b) 1200mm x 1200mm polymer lids	no.	50		
52	PS.PH.5.15	c) Left or right polymer splays to stormwater inlets	no.	30		
53	PS.PH.5.15	d) Polymer kerb piece	no.	30		
54	PS.PH.5.15	e) Type 2A Stormwater cover and frame	no.	50		
55	PS.PH.5.15	f) Type 2B Stormwater cover and frame	no.	25		
56	PS.PH.5.15	g) DN9 Polymer frame and lid	no.	20		
57	PS.PH.5.16	i) Brickworks as required	no.	500		
58	PS.PH.5.17	Grid inlet	no.	30		
59	PS.PG.3.4.5.1	Supply and install 100mm cast iron pipes	no.	20		
60	PS.PG.3.4.5.2	Supply and install cast iron couplers for 100mm pipe	no.	50		
					Total	

SECTION 6: STORMWATER CLEANING

PART: PH MANHOLES AND APPERNANT

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Cleaning of blocked stormwater manholes:				
1	PS.PH.5.20	0.0 -1.5m depth	no.	10000		
2	PS.PH.5.20	1.5M - 3m depth	no.	2000		
3	PS.PH.5.20	3m - 5m depth	no.	25		
4	PS.PH.5.20	5m - 10m depth	no.	25		
		Cleaning of blocked pipes				
5	PS.PH.5.21	0mm - 450mm diameter pipe	m	3000		
6	PS.PH.5.21	450mm-600mm diameter pipe	m	1000		
7	PS.PH.5.21	600mm - 900mm diameter pipe	m	200		
8	PS.PH.5.22	Cleaning of pipe culvert	m3	100		
9	PS.PH.5.23	Cleaning of box portal culvert	m3	100		
10	PS.PH.5.24	Cleaning of lined open drains	m3	500		
11	PS.PH.5.25	Cleaning of earth drains	m3	1500		
12	PS.PH.5.26	Cleaning of Canals	m3	1000		
13	PS.PH.5.27	Vegetation Control (grass cutting)	m2	50000		
14	PS.PH.5.28	Vegetation Control (bush clearing)	m3	1000		
15	PS.PH.5.29	CCTV footage as requested by Engineer	m	1000		
16	PS.PH.5.30	Spraying of Hyacinth/Weeds for canals	m2	50		
17	PS.SM.8.1	Removal of sand from road channels and edges	m	5000		
					Total	

SECTION 7: ROAD MARKING

PART TB: ROAD MARKINGS (RETRO-REFLECTIVE)

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.TB.8.4	Remove existing lane, edge and painted island lines by grit blasting	m ²	250		
2	PS.TB.8.1.1	Painting road lines 100mm wide (White), including setting out and premarking for lines	m	200000		
3	PS.TB.8.1.1	Painting road lines 100mm wide (Yellow), including setting out and premarking for lines	m	5000		
4	PS.TB.8.1.1	Painting road lines 100mm wide (Red), including setting out and premarking for lines	m	5000		
5	PS.TB.8.1.1	Painting road lines 150mm wide (White), including setting out and premarking for lines	m	100000		
6	PS.TB.8.1.1	Painting road lines 150mm wide (Yellow), including setting out and premarking for lines	m	5000		
7	PS.TB.8.1.1	Painting road lines 150mm (Red), including setting out and premarking for lines	m	1000		
8	PS.TB.8.1.1	Painting road lines 200mm wide (White), including setting out and premarking for lines	m	2000		
9	PS.TB.8.6	Removal of lines by black painting	m	500		
10	PS.TB.8.1.1	Transverse lines and islands	m ²	3000		

11	PS.TB.8.1.1	Lettering and symbols (regardless of the color)	m ²	1000		
12	PS.TB.8.1.1	Painting of speed humps	m ²	2000		
					Total	

PART TB: ROAD MARKINGS (THERMOPLASTIC)

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.TB.8.4	Remove existing lane, edge and painted island lines by grit blasting	m ²	50		
2	PS.TB.8.1.1	Painting road lines 100mm wide (White), including setting out and premarking for lines	m	50000		
3	PS.TB.8.1.1	Painting road lines 100mm wide (Yellow), including setting out and premarking for lines	m	10000		
4	PS.TB.8.1.1	Painting road lines 150mm wide (White), including setting out and premarking for lines	m	100000		
5	PS.TB.8.1.1	Painting road lines 150mm wide (Yellow), including setting out and premarking for lines	m	10000		
6	PS.TB.8.1.1	Painting road lines 200mm wide (White), including setting out and premarking for lines	m	5000		
		SCREED APPLICATION(Transverse Road Markings, Lane Lines (all colours)				
7	PS.TB.8.1.1	100mm wide, including setting out and premarking for lines	m	1000		
8	PS.TB.8.1.1	150mm wide, including setting out and premarking for lines	m	1000		
9	PS.TB.8.1.1	200mm wide, including setting out and premarking for lines	m	1000		
10	PS.TB.8.1.1	300mm wide, including setting out and premarking for lines	m	1000		
11	PS.TB.8.1.1	Road Marking for Lettering and symbols , pedestrian crossings and traffic islands (all colors), including for setting out and pre-marking	m ²	1000		
					Total	

PART TB: ROAD STUDS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.TB.8.4	Removal of road studs	no.	25		
					Total	

SECTION 8: RETAINING STRUCTURES

PART F: PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.5	Construct concrete edge beams (class 30MPA/19mm)	m ³	100		
2	F.3.3	Supply and lay grounded stone pitching	m ²	50		
3	F.3.4	Supply and lay coated reno mattress (incl stones)-all sizes	m ³	1000		
4	F.3.4	Supply and lay coated gabion boxes (incl stones)-all sizes	m ³	1000		
5	PS.F.5.8	Supply and lay geofabric for item 3 and 4 (A4 or equivalent)	m ²	5000		
6	PS.F.5.9	Supply and lay stackable TB300 loffestein blocks	m ²	500		
7	PS.F.5.10	Supply and lay stackable TB500 loffestein blocks	m ²	500		
8	PS.F3.4.6.1	Dismantle existing gabion structure and recover handstone for re-use	m ³	250		
9	DD.5.1&5.2	Excavate in all materials	m ²	1000		

10	PS.F.5.12	Supply and place dump rock	m3	1000		
					Total	

Section 9: Fencing

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Remove existing damaged section of fencing				
1	PS.B.8.5.1	a) Diamond mesh wire	m	2000		
2		b) remove barb wire	m	50		
3	PS.B.8.5.2	c) Concrete panels	no.	200		
4	PS.B.8.5.3	d) Concrete pallside fence	m	50		
5	PS.B.8.5.4	e) Nylofor 3-M fence	m	50		
6	PS.B.8.5.5	f) Concrete posts for diamond mesh wire fence (including major posts, intermidiate posts and stays)	no.	2000		
		Remove existing damaged fence posts				
7	PS.B.8.5.6	a) Concrete posts for paliside fence	no.	20		
8	PS.B.8.5.7	b) Concrete posts for panel fence	no.	20		
9	PS.B.8.5.8	c) Bekafix posts for Nylofor 3-M fence	no.	10		
		Supply and install as follows:				
10	PS.F.8.9	Supply all material and fix 2m high fence (2m x 63mm x 3.15 plastic coated diamond mesh) including straining wire	m	1000		
11	PS.F.8.10	Supply all material and fix 1.8m high plastic coated diamond mesh fence including straining wire	m	1000		
12	PS.F.8.11	Supply and fix 50mm x 50mm x 1.8m high Class A' diamond mesh wire	m	10		
13	PS.F.8.12	Supply and erect 3000mm x 2430mm Nylofor 3-M galvanised and PVC coated fence as per Drawing No. IPR8212CD	no.	10		
14	PS.F.8.13	Supply and erect pre-stressed major concrete posts (100mm x 100mm x 3100mm) including excavation and concreting	no.	50		
15	PS.F.8.14	Supply and erect pre-stressed major concrete posts (100mm x 100mm x 2900mm) including excavation and concreting.	no.	50		
16	PS.F.8.15	Supply and erect concrete stays (75mm x 75mm x 2700mm) including excavation and concreting.	no.	50		
17	PS.F.8.16	Supply and erect concrete intermediate posts (75mm x 75mm x 2700mm) including excavation and concreting	no.	20		
18	PS.F.8.17	Supply and erect concrete intermediate posts (75mm x 75mm x 3100mm) including excavation and concreting.	no.	20		
19	PS.F.8.18	including cap, metal fixators, excavation and concreting as per Drawing No.IPR8212cd	no.	20		
		Reseting existing fencing posts:				
20	PS.F.8.19	(i) Concrete posts for diamond meshwire fence	no.	20		
21	PS.F.8.20	(ii) Concrete posts for palisade fence	no.	20		
22	PS.F.8.21	iii) Concrete posts for panel fence	no.	20		
23	PS.F.8.22	iv) Bekafix posts Nylofor 3-M fence	no.	10		
24	PS.F.8.23	Supply fully galvanised 2,5mm barbed wire	m	50		
		Supply and fix fully galvanised razor coil				

25	PS.F.8.24	i) 500mm outside diameter	m	10		
26	PS.F.8.25	ii) 700mm outside diameter	m	10		
27	PS.F.8.26	iii) 900mm outside diameter	m	10		
		Supply and fix fully galvanised razor wire				
28	PS.F.8.27	i) 500mm flat rap	m	10		
29	PS.F.8.28	ii) 700mm flat rap	m	10		
30	PS.F.8.29	iii) 900mm flat rap	m	10		
31	PS.F.8.30	Supply and erect 2.4m high palsade fence including posts,pales, rails, excavation and concreting	m	20		
32	PS.F.8.31	Supply and erect concrete posts (2.4m x 125mm x 135mm) for concrete panel fence including all excavations and concreting	no.	50		
33	PS.F.8.32	Supply and erect concrete fence panels	no.	10		
34	PS.F.8.33	i) Supply and erect pedestrian gates, including posts and stays, complete as per Drawing No.38583	no.	5		
35	PS.F.8.34	ii) Supply and erect vehicular security gates, including posts and stays, complete as per Drawing No.38583	no.	5		
					Total	

SECTION 10: SUBSOIL

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PSDB.8.31	Removal of excess spoil	m3	100		
					Total	

PART EB GRADED STONE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.DB.8.1.1	Excavate to stockpile 0-1m deep	m3	100		
2	PS.DB.8.1.1	Excavate to stockpile (hard material) 0-1m deep	m3	100		
3	PS. DB.8.5.1	From Stockpile to Backfilling	m3	100		
4	PS.DB.8.5.2	From Stockpile to Spoil	m3	100		
5	PS.DB8.13.1	Supply and lay coarse river sand for sub-soil drain	m3	50		
6	PS DB 13.2	Saw Cutting	m	200		
7	PS.DB.8.2.1	De-watering for Excavation	day	1		
					Total	

PART EB GRADED CRUSH STONE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EB.8.1	Supply and place Graded crushed stone base (19mm)	m3	250		
2	EB.8.1	Supply and place G7 material	m3	250		
					Total	

PART PG NON PRESSURE PIPELINES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.12.1	Supply and lay of 1.8m wide Geofabric Blanket	m2	500		
2	PG.8.12.2	Supply and lay 110mm diameter Pitch subsoil pipe	m	500		
3	PG.8.6.1	Connect to existing stormwater manhole or new manhole	no.	20		
4	PS.PG.8.6.2	Supply and install 110mm diameter 90 degree bellow elbow bend (SV)	no.	30		
5	PS.PG.8.6.3	Supply and install 110mm diameter T junction connector (SV)	no.	30		
6	PS.PG.8.6.4	Supply and install 110 mm diameter joiner (SV)	no.	30		
7	PS.PG.8.6.5	Supply and install 110mm diameter pipe (SV)	m	50		
8	PG.8.6.6	Supply and install 750 diameter manhole ring (300mm depth)	no.	20		
9	PG.8.6.7	Supply and install 750 diameter manhole ring (500mm depth)	no.	20		
10	PG.8.6.8	Supply and install polymer type 2A and 2B frame and covers	no.	10		
11	PG.8.6.7	Supply and install 110 diameter Y junction connector	no.	10		
12	PG.8.6.10	Connect to existing stormwater pipe	no.	20		
					Total	

Section 11: Excavation

Item	Clause	Description	Unit	Quantity	Rate	Amount
Backfilling and compacting						
1	PS EB.5.1.1	(a) Using material (from stockpile)	m3	250		
2	PS EB.5.1.2	(b) Using suitable imported material (including haulage)	m3	200		
					Total	

Section 12: Guardrails, Handrails and Concrete Posts

Part EH: Steel Guardrails and Concrete Meridian Barriers

Item	Clause	Description	Unit	Quantity	Rate	Amount
		Remove damaged Guardrails and Posts				
1	PS EH.8.2	Removal of Guardrails (all types) to Spoil/Depot Yard	m	2000		
2	PS EH.8.2.1	Removal of Damaged Guardrail concrete posts to spoil/Depot yard	no.	500		
3	PS EH.8.5	Removal of Base plates to spoil	no.	50		
		Supply and install New Guardrails and Concrete Posts				
4	EH.8.1	Supply and install Single guardrails	m	3000		
5	EH.8.1	Supply and install Curved guardrails	m	50		
6	PS EH.8.1.1	Supply and install Fishtail type	no.	100		
7	PS EH.8.1.2	Supply and install Bullnose type	no.	20		
8	PS EH.8.1.14	Supply and install steel base plate posts	no.	30		
9	PS EH.8.8	Ramped approached-end section (single rail)	no.	10		

10	PS EH.8.6	Supply and install 300mm precast concrete post	no.	500		
11	PS EH.8.6	Supply and install 400mm precast concrete post	no.	50		
12	PS EH.8.7	Supply and install reflective plates	no.	200		
		Re-align Existing Concrete Posts and Guardrails				
13	PS EH.8.3	Re-align Single head post including post bolts	no.	100		
14	PS EH.8.4	Re-align Guardrails (all type) including splice bolts	m	1000		
		Remove damaged Handrails				
15	PS B.3.11	Removal of Handrail-Horizontal	m	200		
16	PS B.3.12	Removal of Handrail-Vertical	m	200		
17	PS EH.8.5	Removal of base plates to spoil	no.	20		
		Supply and install New Handrails				
18	PS EH.5.3	Supply and install new horizontal handrail - 34mm dia.	m	50		
19	PS EH.3.1.2	Supply and install new horizontal handrail - 70mm dia.	m	200		
20	PS EH.5.3.2	Supply and install new end bars - 34mm dia	m	50		
21	PS EH.5.3.3	Supply and install new end bars - 70mm dia	m	20		
22	PS EH.3.1.4	Supply and install new vertical handrail section	m	50		
23	PS EH.5.3.1	Supply and install new concrete post	no.	50		
24	PS EH.5.3.3	Supply and install new polymer post	no.	50		
25	PS EH.8.1.14	Supply and install new base plate	no.	20		
26	PS EH.5.5	Paint handrails (horizontal and vertical)	m	20		
27	PS EH.5.6	Paint concrete posts	no.	200		
28	PS EH.5.4	Install recovered handrail - horizontal	m	50		
29	PS EH.5.5	Install recovered handrail - vertical	m	50		
					Total	

Section 13: Mill and Replace

Item	Clause	Description	Unit	Quantity	Rate	Amount
	C4.3.4	Saw-cutting existing materials within the following average depth ranges				
1	C4.3.4.1	Asphalt material:				
1.1		a) Not exceeding 50 mm	m	5		
1.2		b) Exceeding 50 mm but not exceeding 100 mm	m	5		
1.3		c) Exceeding 100 mm	m	5		
	C4.3.5	Providing the milling machine on the site				
	C4.3.5.1	Small milling machine with a cutting width of 1,2 m or smaller	No	1		
	C4.3.5.2	Large milling machine with a cutting width exceeding 1,2 m	No	1		

4.3.6	Milling and removal of existing asphalt layers with an average milling depth (Contractor takes ownership)				
C4.3.6.1	Not exceeding 50 mm	m ³	10		
C4.3.6.2	Exceeding 50 mm but not exceeding 100 mm	m ³	10		
C4.3.6.2	Exceeding 100 mm	m ³	5		
C4.3.7	Milling and removal of existing asphalt layers with an average milling depth (Employer takes ownership)				
C4.3.7.1	Not exceeding 50 mm	m ³	10		
C4.3.7.2	Exceeding 50 mm but not exceeding 100 mm	m ³	5		
C4.3.7.2	Exceeding 100 mm	m ³	5		
C4.3.8	Milling and removal of existing asphalt layers with an average milling depth (Employer takes ownership)				
C4.3.8.1	Crushed stone material	m ³	10		
C4.3.8.2	Cemented material	m ³	10		
C4.3.8.2	Natural Gravel	m ³	10		
C9.1.5	Asphalt surfacing				
C9.1.5.2	Rehabilitation				
(a)	Stone skeletal mix – continuously graded as defined (state layer thickness, binder type and design class/ level)	t	2		
(b)	Stone skeletal mix – SMA as defined (state layer thickness, binder type)	t	2		
(c)	Stone skeletal mix – gap graded as defined (state layer thickness and binder type)	t	2		
(d)	Stone skeletal mix- open graded as defined (state layer thickness and binder type)	t	2		
(e)	Sand skeletal mix – continuously graded as defined (state layer thickness, binder type, design class/ level)	t	2		
(f)	Sand skeletal mix – gap graded mix (state layer thickness, binder type design class/level)	t	2		
(g)	Any of the above mix types where the use of reclaimed asphalt has been specified (indicate maximum % reclaimed asphalt or binder replacement)	t	2		
(h)	Certified: any mixes certified for specific applications by an approved agency as being fit for the purpose and as specified in the Contract Documentation	t	2		
C9.1.7	Placing and compacting asphalt in restricted areas				
C9.1.7.1	Extra over payment items C9.1.4.1 and C9.1.5.1 (state layer thickness, mix class, binder type, nominal maximum particle size and placing technique)	m ²	5		
C9.1.7.2	Extra over payment items C9.1.4.2 and C9.1.5.2 (state layer thickness, mix class, binder type, nominal maximum particle size and placing technique)	t	6		
C9.1.13	Placing and compacting asphalt in restricted areas				
C9.1.13.1	100 mm diameter	No	5		
C9.1.13.2	150 mm diameter	No	5		
					Total

Section 14: Dayworks

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C1.2.8.1 (a)	Labour rate (a) Unskilled	hr	200		
2	C1.2.8.1 (b)	Labour rate (b) Skilled	hr	200		
3	C1.2.8.1 (e)	Labour rate for work s (c) Supervisor	hr	200		

3	C1.2.8.2 (b)	Transport and Equipment - i.e Tipper Trucks. i) 6m3	hr	50		
4	C1.2.8.2 (d)	Transport and Equipment - i.e Tipper Trucks. ii)10 m3	hr	50		
5	C1.2.8.2 (e)	TLB (4X4)	hr	100		
6	C1.2.8.2 (f)	Skid-steer Loader (BOBCAT)	hr	100		
7	C1.2.8.2 (h)	High Pressure Jetting Machine	hr	25		
8	C1.2.8.2 (h)	Watercart	hr	25		
9	C1.2.8.2 (h)	Smooth or Padfoot Roller	hr	25		
10	C1.2.8.2 (h)	Hand-guided Vibratory Roller	hr	25		
11	C1.2.8.2 (h)	Excavator (20t)	hr	25		
12	C1.2.8.2 (h)	Low Bed	hr	20		
					Total	

SUMMARY SECTION

1		Preliminary & General	R	
		AA Preliminaries	R	
		AB General specification	R	
		AH OCC Health and Safety	R	
2		Asphalt Surface Repairs	R	
		ED Road Asphalt	R	
		S Reinstatement	R	
3		Concrete and Paving Repairs	R	
		EG Sidewalk, Footpaths	R	
4		Access Hardening	R	
		EG Sidewalk	R	
5		Stormwater Infrastructure	R	
		PH Manholes and Appurtnants	R	
6		Stormwater Cleaning	R	
		PH Manholes and Appurtnants	R	
7		Road Marking	R	
		Retro-reflective	R	
		Thermoplastics	R	
		Road Studs	R	
8		Retaining Structures	R	
		F Protection Structures	R	

9					Fencing	R
10					Subsoil	R
				B Site Clearance	R	
				DB Earthworks Pipe	R	
				EB Graded Crushed Stone	R	
				PG Non Pressure	R	
11					Excavation	R
12					Guardrails, Handrails and Concrete Posts	R
13					Mill and Replace	R
14					Dayworks	R
					Sub Total	R
					15% VAT	R
					Total Carried to Form of Offer	R