

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

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COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

BILL OF QUANTITIES

SECTION 1 Preliminary and General

PART AA PRELIMINARIES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|-------------|-------------------------|---|-------------|-----------------|-------------|---------------|
| 1 | GCC 2015 | GCC 2015 FIXED CHARGE ITEMS AS A % OF THE CONTRACT VALUE WHERE THE CONTRACT VALUE IS: | | | | |
| 2 | GCC 2015 | Less than < R1m | % | 1,000,000 | | |
| 3 | GCC 2015 | Greater than R1m and less than R3m | % | 3,000,000 | | |
| 4 | GCC 2015 | Greater than R3m and less than R6m | % | 6,000,000 | | |
| 5 | GCC 2015 | Greater than R6m and less than R10m | % | 10,000,000 | | |
| 6 | GCC 2015 | Greater than R10m | % | 20,000,000 | | |
| 7 | GCC 2015 | GCC 2015 TIME RELATED ITEMS AS A % OF THE CONTRACT VALUE WHERE THE CONTRACT VALUE IS: | | | | |
| 8 | GCC 2015 | Less than < R1m | % | 1,000,000 | | |
| 9 | GCC 2015 | Greater than R1m and less than R3m | % | 3,000,000 | | |
| 10 | GCC 2015 | Greater than R3m and less than R6m | % | 6,000,000 | | |
| 11 | GCC 2015 | Greater than R6m and less than R10m | % | 10,000,000 | | |
| 12 | GCC 2015 | Greater than R10m | % | 20,000,000 | | |
| 13 | SANS 1921-1 | SANS 1921-1 & SANS 1200 FIXED CHARGE ITEMS AS A % OF THE CONTRACT VALUE , WHERE THE CONTRACT VALUE IS : | | | | |
| 14 | SANS 1200 & SANS 1921-1 | Less than < R1m | % | 1,000,000 | | |
| 15 | SANS 1200 & SANS 1921-1 | Greater than R1m and less than R3m | % | 3,000,000 | | |
| 16 | SANS 1200 & SANS 1921-1 | Greater than R3m and less than R6m | % | 6,000,000 | | |
| 17 | SANS 1200 & SANS 1921-1 | Greater than R6m and less than R10m | % | 10,000,000 | | |
| 18 | SANS 1200 & SANS 1921-1 | Greater than R10m | % | 20,000,000 | | |
| 19 | SANS 1200 & SANS 1921-1 | SANS 1921-1 & SANS 1200 TIME RELATED ITEMS AS A % OF THE CONTRACT VALUE , WHERE THE CONTRACT VALUE IS : | | | | |
| 20 | SANS 1200 & SANS 1921-1 | Less than < R1m | % | 1,000,000 | | |
| 21 | SANS 1200 & SANS 1921-1 | Greater than R1m and less than R3m | % | 3,000,000 | | |
| 22 | SANS 1200 & SANS 1921-1 | Greater than R3m and less than R6m | % | 6,000,000 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

Part Continued **PART AA PRELIMINARIES**

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|-------------------------|---|--------|------------|------|--------|
| 23 | SANS 1200 & SANS 1921-1 | Greater than R6m and less than R10m | % | 10,000,000 | | |
| 24 | SANS 1200 & SANS 1921-1 | Greater than R10m | % | 20,000,000 | | |
| 25 | C.1.2.3.1 | COMMUNITY LIAISON OFFICER Allow for a CLO to be appointed. | PC Sum | 673920 | | |
| 26 | C.1.2.3.1 | % Mark-up for item 25 above.Tenderer to state % Mark-up (Mark-up =.....%) | % | 673920 | | |
| 27 | C.1.2.3.4 | LOCAL LABOUR + PS.13 Allow for the weekly submission of proof of employmrrny of local labour | months | 12 | | |

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General

R

PART AB GENERAL SPECIFICATIONS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------------|---|--------|----------|------|--------|
| 1 | AB.4 | Contractor's Camp Site / Store Yard | months | 12 | | |
| 2 | AB.5 | Notice Board | months | 12 | | |
| 3 | AB.7/PS.15.1 | Temporary Stream diversion | months | 12 | | |
| 4 | AB.7/PS.15.2 | Road Deviations | months | 12 | | |
| 5 | AB.7 | Initial supply of all signs, barricades and delineators | no. | 12 | | |
| 6 | AB.7 | Maintenance of Pedestrian and Traffic Facilities | months | 12 | | |
| 7 | AB.7 | Maintenance of all signs, barricades and delineators | months | 12 | | |
| 8 | PS.14.3 | Survey coordination of existing valves, manholes, catchpits, and cable duct markers | no. | 12 | | |
| 9 | PS.16 | Allow for the following Additional Items which the tenderer requires to be priced separately :- a) | sum | 1 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

Part Continued **PART AB GENERAL SPECIFICATIONS**

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|------------|---|--------|----------|------|------------|
| 10 | AB.6/PS.17 | Cost of Samples and Contractor's Preliminary and Site Control Testing. Acceptance testing for material to be undertaken by a SANAS accredited Specialist Materials Testing Laboratory as directed by Engineer on Site | sum | 1 | | |
| 11 | PS.14.3 | Setting Out | hr | 8784 | | |
| 12 | PS.11 | Site Security | months | 12 | | |
| 13 | PS.14.4 | Survey for, and Preparation of, 'As-Built' Drawings | no. | 12 | | |
| 14 | PS.21 | Allowance for Geotechnical Engineer for investigations and testing, design, detail, supervision and stability certificate | PC Sum | 200,000 | 1.00 | 200,000.00 |
| 15 | PS.21 | %Mark-up for item 14 above.Tenderer to state % Mark-up (Mark-up=.....%) | % | 200,000 | | |
| 16 | PS.22 | Temporary structure for road crossing | sum | 1 | | |
| 17 | PS.23 | Provisional sum for protection and repair of municipal infrastructure | PC Sum | 250,000 | 1.00 | 250,000.00 |
| 18 | C.1.2.3.6 | Expected Risk: De-establishment | no. | 12 | | |
| 19 | C.1.2.3.6 | Expected Risk: Re-establishment | no. | 12 | | |
| 20 | PS.24 | Hire of 30 ton excavator | months | 12 | | |
| 21 | PS.25 | Low bed hire | months | 12 | | |
| 22 | PS.26 | 6"(inch) pump hire | months | 12 | | |
| 23 | PS.27 | Front end loader hire | months | 12 | | |
| 24 | PS.28 | Polymer manhole covers | no. | 12 | | |
| 25 | PS.29 | CCTV Camera survey of stormwater pipes | m | 200 | | |
| 26 | PS.30 | High Pressure Jetting of stormwater pipes | m | 200 | | |

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 |
|------|---------------|---|------|----------|------|--------|
| 1 | AH.14.1+PS.10 | Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations | no. | 12 | | |
| 2 | AH.14.2+PS.10 | Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations | no. | 12 | | |
| 3 | AH.14.3+PS.10 | Submission of the Health and Safety File | no. | 12 | | |

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General

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COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 2 Site Clearance

PART B SITE CLEARANCE

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|-------------|---------------|---|-------------|-----------------|-------------|---------------|
| 1 | B.8.2 | General clearance and grubbing in road reserve | m2 | 1000 | | |
| 2 | B.8.2 | General clearance and grubbing within a servitude | m2 | 500 | | |
| 3 | B.8.2 | General clearance and grubbing in contractor's camp site | m2 | 1000 | | |
| 4 | B.8.2 | General clearance and grubbing in temporary stockpile area | m2 | 1000 | | |
| 5 | B.8.4 | Removal of trees of girth exceeding 1,5 m | no. | 20 | | |
| 6 | B.8.5 | Removal of 1.8 m high steel palisade fence and store on site for re-use | m | 15 | | |
| 7 | B.8.9 | Removal of brickwork | m3 | 200 | | |
| 8 | B.8.10 | Removal of unreinforced concrete | m3 | 50 | | |
| 9 | B.8.11 | Removal of reinforced concrete | m3 | 50 | | |
| 10 | B.8.14 | Removal of roadways to tip | m2 | 200 | | |
| 11 | B.8.15 | Removal of asphalt sidewalks/medians to tip | m2 | 200 | | |
| 12 | B.8.16 | Removal of kerb and channel/fillet to tip | m | 200 | | |
| 13 | B.8.19 | Removal of disused pipes, 0 - 800 mm diameter as directed by the engineer. Rate to include all haulage | m | 100 | | |
| 14 | B.8.19 | Removal of disused pipes, greater than 800 mm diameter as directed by the engineer. Rate to include all haulage | m | 50 | | |
| 15 | PS.B.8.23 | Removal of manhole covers and store on site for re-use | no. | 20 | | |
| 16 | B.8.5 | Removal of 1.5 - 2.1 m high wire mesh fence and store on site for re-use | m | 300 | | |
| 17 | B.8.6 | Removal of guardrail and posts and store on site for re-use | m | 100 | | |
| 18 | B.8.7 | Removal of street/traffic signs and posts and store on site for re-use | no. | 30 | | |
| 19 | PS.B.8.24 | Removal of existing sandbag retaining wall to stockpile on site for re-use (rate to include stockpile handling) | no. | 200 | | |
| 20 | PS.B.8.25 | Removal of existing water loffelstein type retaining wall to stockpile on site for re-use(rate to include stockpile handling) | m2 | 100 | | |

TOTAL CARRIED TO SECTION 2 SUMMARY: Site Clearance

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COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 3 Earthworks

PART DA EARTHWORKS : BULK

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|-------------------|--|------|----------|------|--------|
| 1 | DA.8.2 | Excavate topsoil and stockpile. Rate to include all haulage and royalties | m3 | 1000 | | |
| 2 | DA.8.2 | Excavate topsoil and spoil at tip. Rate to include all haulage and royalties | m3 | 1000 | | |
| 3 | DA.8.3 | Excavate soft material and place directly into fill. Rate to include all haulage and royalties | m3 | 500 | | |
| 4 | DA.8.3 | Extra over above for excavation in hard material to fill | m3 | 200 | | |
| 5 | DA.8.3 | Excavate soft material to stockpile. Rate to include all haulage and royalties | m3 | 250 | | |
| 6 | DA.8.3 | Extra over for excavation in hard material to stockpile | m3 | 200 | | |
| 7 | DA.8.3 | Excavate in soft material to spoil | m3 | 250 | | |
| 8 | DA.8.3 | Extra over above for excavation of hard material to spoil | m3 | 50 | | |
| 9 | DA.8.3 | Excavate unsuitable material below embankments or formation and spoil at tip | m3 | 100 | | |
| 10 | DA.8.4 | Import suitable fill material from contractor's off-site source inclusive of haulage and royalties | m3 | 1000 | | |
| 11 | DA.8.5 | Compact soft material from site to 95% Mod. A.A.S.H.T.O. | m3 | 250 | | |
| 12 | DA.8.5 | Compact hard material from site to 95% Mod. A.A.S.H.T.O. | m3 | 50 | | |
| 13 | DA.8.5 | Compact imported fill material to 95% Mod. A.A.S.H.T.O. | m3 | 500 | | |
| 14 | DA.8.6 | Trimming of embankments | m2 | 1000 | | |
| 15 | DA.8.7 | Stockpile handling of all material to fill | m3 | 500 | | |
| 16 | DA.8.9 | Formation | m2 | 1000 | | |
| 17 | PS.F.8.9/PS.D A.3 | Supply and place general grade geofabric | m2 | 2000 | | |
| 18 | PS.DA.8.11 | Clean course beach sand fill | m3 | 500 | | |

TOTAL CARRIED TO SECTION 3 SUMMARY: Earthworks

R

PART DB EARTHWORKS FOR PIPE TRENCHES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|--|------|----------|------|--------|
| 1 | DB.8.4 | Excavate topsoil to stockpile for re-use. Depth 100 mm | m2 | 1000 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS
Part Continued PART DB EARTHWORKS FOR PIPE TRENCHES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|---------|--|------|----------|------|--------|
| 2 | DB.8.5 | Excavate and backfill in all material where depth is:- - Over 0,0 m and not exceeding 1,5 m | m | 500 | | |
| 3 | DB.8.5 | Excavate and backfill in all material where depth is:- - Over 1,5 m and not exceeding 2,0 m | m | 500 | | |
| 4 | DB.8.5 | Excavate and backfill in all material where depth is:- - Over 2,0 m and not exceeding 2,5 m | m | 500 | | |
| 5 | DB.8.5 | Excavate and backfill in all material where depth is:- - Over 2,5 m and not exceeding 3,0 m | m | 500 | | |
| 6 | DB.8.5 | Excavate and backfill in all material where depth is:- - Over 3,0 m and not exceeding 3,5 m | m | 500 | | |
| 7 | DB.8.6 | Extra over item 1 - 7 for hard material/rock | m3 | 50 | | |
| 8 | DB.8.14 | Extra over item 1 - 7 for cement stabilised backfill | m3 | 100 | | |
| 9 | DB.8.9 | Provision of selected fill for pipe bedding from a commercial or off-site source | m3 | 1000 | | |
| 10 | DB.8.9 | Provision of 19 mm stone material for pipe bedding from commercial or off-site source | m3 | 200 | | |
| 11 | DB.8.10 | Placing and compacting of Class B pipe bedding. | m | 1000 | | |
| 12 | DB.8.10 | Placing and compacting of Class C pipe bedding. | m | 1000 | | |
| 13 | DB.8.10 | Placing and compacting of flexible pipe bedding. | m | 1000 | | |
| 14 | DB.8.12 | Encasing of pipes in concrete grade 20/19 | m3 | 100 | | |
| 15 | DB.8.13 | Provision of selected backfill material for pipe trenches from commercial or off-site source | m3 | 1000 | | |
| 16 | DB.8.15 | Disposal of unsuitable or surplus material from trench excavation | m3 | 200 | | |
| 17 | DB.8.19 | Prove existing services by hand excavation (provisional), where depth is: - - Over 0,0 m and not exceeding 1,5 m | m3 | 100 | | |
| 18 | DB.8.19 | Prove existing services by hand excavation (provisional), where depth is: - - Over 1,5 m and not exceeding 2,0 m | m3 | 100 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS
Part Continued PART DB EARTHWORKS FOR PIPE TRENCHES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|-------------------------|--|------|----------|------|--------|
| 19 | DB.8.19 | Prove existing services by hand excavation (provisional), where depth is: - - Over 2,0 m and not exceeding 2,5 m | m3 | 100 | | |
| 20 | DB.8.19 | Prove existing services by hand excavation (provisional), where depth is: - - Over 2,5 m and not exceeding 3,0 m | m3 | 100 | | |
| 21 | DB.8.19 | Prove existing services by hand excavation (provisional), where depth is: - - Over 3,0 m and not exceeding 3,5 m | m3 | 100 | | |
| 22 | PS.DB.8.9/PS. DD.8.6 | Lateral support system | sum | 1 | | |
| 23 | DB.8.8 | Excavation of unsuitable material from trench bottom and spoil at tip | m3 | 300 | | |
| 24 | DB.8.20 | Trench shoring for excavation deeper than 1.5m depths | sum | 1 | | |

TOTAL CARRIED TO SECTION 3 SUMMARY: Earthworks
R
PART DD EARTHWORKS FOR STRUCTURES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|-----------|--|------|----------|------|--------|
| 1 | DD.8.2 | Excavate in all material for culvert to stockpile | m3 | 300 | | |
| 2 | DD.8.2 | Excavate in all material for culvert to spoil | m3 | 600 | | |
| 3 | DD.8.2 | Extra over item 1 for hard material | m3 | 600 | | |
| 4 | DD.8.2 | Extra over item 1 for excavation in excess of planned depth [provisional] | m3 | 100 | | |
| 5 | DD.8.3 | Backfill and compact using material from stockpile | m3 | 500 | | |
| 6 | DD.8.3 | Backfill and compact using imported material from contractor's own source. Rate to include all haulage and royalties | m3 | 500 | | |
| 7 | PS.DD.8.6 | Design, installation and removal of a ground lateral support system to secure the excavated surfaces | sum | 1 | | |

TOTAL CARRIED TO SECTION 3 SUMMARY: Earthworks
R

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 4 Stormwater Pipe works

PART PG NON PRESSURE PIPELINES and PC CULVERTS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|---|------|----------|------|--------|
| 1 | PG.8.2 | 375 mm diameter concrete Class 100D | m | 100 | | |
| 2 | PG.8.2 | 450 mm diameter concrete Class 100D | m | 250 | | |
| 3 | PG.8.2 | 600 mm diameter concrete Class 100D | m | 250 | | |
| 4 | PG.8.2 | 750 mm diameter concrete Class 100D | m | 250 | | |
| 5 | PG.8.2 | 900 mm diameter concrete Class 100D | m | 250 | | |
| 6 | PG.8.2 | 1200 mm diameter concrete Class 100D | m | 250 | | |
| 7 | PG.8.2 | 1500 mm diameter concrete Class 100D | m | 250 | | |
| 8 | PG.8.2 | 400mm diameter HDPE 4KN/m2 structured wall | m | 250 | | |
| 9 | PG.8.2 | 600mm diameter HDPE 4KN/m2 structured wall | m | 250 | | |
| 10 | PG.8.2 | 800mm diameter HDPE 4KN/m2 structured wall | m | 250 | | |
| 11 | PG.8.2 | 900mm diameter HDPE PN10 solid wall | m | 100 | | |
| 12 | PG.8.2 | 400mm diameter HDPE PN10 solid wall | m | 100 | | |
| 13 | PG.8.2 | 600mm diameter HDPE PN10 solid wall | m | 250 | | |
| 14 | PG.8.2 | 800mm diameter HDPE PN10 solid wall | m | 250 | | |
| 15 | PG.8.2 | 900mm diameter HDPE PN10 solid wall | m | 250 | | |
| 16 | PG.8.2 | But-fusion weld HDPE pipes (400mm - 900mm) | no. | 200 | | |
| 17 | PG.8.2 | Welded Spigot and socket HDPE joint collars (400mm - 900mm) | no. | 200 | | |
| 18 | PG.8.2 | 150mm diameter subsoil pipe | m | 100 | | |

TOTAL CARRIED TO SECTION 4 SUMMARY: Stormwater Pipe works

R

PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|--|------|----------|------|--------|
| 1 | PH.8.2 | Manhole type A with inlet type cover S1. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |
| 2 | PH.8.2 | Manhole type A with inlet type cover S3. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |
| 3 | PH.8.2 | Manhole type A with inlet type cover S3. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 4 | PH.8.2 | Manhole type A with inlet type cover D3. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS
Part Continued PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|----------|--|------|----------|------|--------|
| 5 | PH.8.2 | Manhole type A with inlet type cover D3. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 6 | PH.8.2 | Break into existing brick manhole wall for 400 - 800 mm diameter pipe and make good | no. | 10 | | |
| 7 | PH.8.2 | Manhole type A with light duty concrete cover. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |
| 8 | PH.8.2 | Manhole type A with light duty concrete cover. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 9 | PH.8.2 | Manhole type A with light duty concrete cover. Depth :- - Over 2,0 m and not exceeding 2,5 m | no. | 10 | | |
| 10 | PH.8.2 | Manhole type A with light duty concrete cover. Depth :- - Over 2,5 m and not exceeding 3,0 m | no. | 10 | | |
| 11 | PH.8.2 | Manhole type A with light duty concrete cover. Depth :- - Over 3,0 m and not exceeding 3,5 m | no. | 10 | | |
| 12 | PH.8.2 | Manhole type A with heavy duty concrete cover. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |
| 13 | PH.8.2 | Manhole type A with heavy duty concrete cover. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 14 | PH.8.2 | Manhole type A with heavy duty concrete cover. Depth :- - Over 2,0 m and not exceeding 2,5 m | no. | 10 | | |
| 15 | PH.8.2 | Manhole type A with heavy duty concrete cover. Depth :- - Over 2,5 m and not exceeding 3,0 m | no. | 10 | | |
| 16 | PH.8.2 | Manhole type A with heavy duty concrete cover. Depth :- - Over 3,0 m and not exceeding 3,5 m | no. | 10 | | |
| 17 | PH.8.5.6 | Precast concrete light duty manhole cover and frame | no. | 10 | | |
| 18 | PH.8.5.6 | Precast concrete heavy duty manhole cover and frame | no. | 10 | | |
| 19 | PH.8.5.6 | Precast concrete light duty inlet splay | no. | 10 | | |
| 20 | PH.8.5.6 | Precast concrete heavy duty inlet splay | no. | 10 | | |
| 21 | PH.8.5.4 | Benching | m3 | 25 | | |
| 22 | PH.8.2 | Manhole type A with inlet type cover S1. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS
Part Continued PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|------------|--|------|----------|------|--------|
| 23 | PH.8.2 | Manhole type A with inlet type cover S1. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 24 | PH.8.2 | Manhole type A with inlet type cover S2. Depth :- - Over 0,0 m and not exceeding 1,5 m | no. | 10 | | |
| 25 | PH.8.2 | Manhole type A with inlet type cover S2. Depth :- - Over 1,5 m and not exceeding 2,0 m | no. | 10 | | |
| 26 | PH.8.2 | 345 mm brickwork to [manhole/ headwall] | m2 | 500 | | |
| 27 | PH.8.5.3 | 230 mm brickwork to [manhole/ headwall] | m2 | 500 | | |
| 28 | PS.PH.8.10 | Construct standard inlet headwall as per drawing no. 38576 | no. | 10 | | |
| 29 | PS.PH.8.10 | Construct standard outlet headwall as per drawing no. 38576 | no. | 10 | | |
| 30 | PH.8.5.6 | Heavy duty cast iron manhole cover and frame | no. | 10 | | |
| 31 | PH.8.7 | Raise/lower existing manhole with concrete cover and frame in paved area by :- - 0 to 500 mm | no. | 10 | | |
| 32 | PH.8.5 | Break into existing brick manhole wall for 400 - 800 mm diameter pipe and make good | no. | 10 | | |

TOTAL CARRIED TO SECTION 4 SUMMARY: Stormwater Pipe works
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COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 5 Culvert Works

PART C CONCRETE WORK

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|----------|--|------|----------|------|--------|
| 1 | C.8.1 | Grade 15/19 concrete blinding of thickness 75 mm | m2 | 200 | | |
| 2 | C.8.1 | Grade 25/19 concrete | m3 | 25 | | |
| 3 | C.8.1 | Grade 30/19 concrete | m3 | 100 | | |
| 4 | C.8.1 | Grade 40/19 concrete | m3 | 25 | | |
| 5 | C.8.2 | Mild steel reinforcement | t | 0.5 | | |
| 6 | C.8.2 | High tensile steel reinforcement | t | 5 | | |
| 7 | C.8.3 | Class 1 shuttering | m2 | 50 | | |
| 8 | C.8.3 | Class 3a shuttering | m2 | 150 | | |
| 9 | PS.C.8.4 | Sealant in expansion joint (polysulfied or similar approved) | m | 50 | | |
| 10 | PS.C.8.5 | Construct 75 mm dia. P.V.C weepholes inclusive of no fines concrete plug | no. | 25 | | |
| 11 | C.8.2 | High tensile steel fabric reinforcement ref: 617 | t | 1 | | |
| 12 | C.8.2 | High tensile steel fabric reinforcement ref : 193 | t | 1 | | |
| 13 | PS.C.8.4 | Adhesive tape to expansion joints | m | 100 | | |
| 14 | PS.C.8.6 | Dowelling | no. | 20 | | |

TOTAL CARRIED TO SECTION 5 SUMMARY: Culvert Works

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|---|------|----------|------|--------|
| 1 | PG.8.7 | Standard precast concrete portal culvert Class C - 1800 x 1800 mm | m | 100 | | |
| 2 | PG.8.7 | Standard precast concrete portal culvert Class C - 2100 x 2100 mm | m | 100 | | |
| 3 | PG.8.7 | Standard precast concrete portal culvert Class C - 2400 x 2400 mm | m | 100 | | |
| 4 | PG.8.7 | Standard precast concrete portal culvert Class C - 3000 x 3000 mm | m | 100 | | |
| 5 | PG.8.7 | Standard precast concrete portal culvert Class C - 2100 x 1200 mm | m | 100 | | |
| 6 | PG.8.7 | Standard precast concrete portal culvert Class C - 2100 x 1500 mm | m | 100 | | |
| 7 | PG.8.7 | Standard precast concrete portal culvert Class C - 2400 x 1500 mm | m | 100 | | |
| 8 | PG.8.7 | Standard precast concrete portal culvert Class C - 3000 x 1500 mm | m | 100 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

Part Continued PART PG NON PRESSURE PIPELINES and PC CULVERTS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|-----------------------------|------|----------|------|--------|
| 9 | PG.8.9 | Form recess for portal legs | m | 250 | | |

TOTAL CARRIED TO SECTION 5 SUMMARY: Culvert Works

R

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 6 Protection Works

PART F PROTECTION WORKS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|-------------|---------------|--|-------------|-----------------|-------------|---------------|
| 1 | F.8.1 | Imported topsoil: thickness 150 mm | m2 | 500 | | |
| 2 | F.8.3 | Grass planting | m2 | 500 | | |
| 3 | F.8.6 | Supply and lay Galvanised PVC coated Terramesh Gabion boxes: 1000 mm depth | m3 | 150 | | |
| 4 | F.8.6 | Supply and lay Galvanised PVC coated Gabion boxes: 1000 mm depth | m3 | 500 | | |
| 5 | F.8.6 | Supply and lay Galvanised PVC coated Gabion boxes: 500 mm depth | m3 | 150 | | |
| 6 | F.8.6 | Supply and lay Galvanised PVC coated Gabion mattresses, 300 mm thick | m3 | 150 | | |
| 7 | F.8.6 | Extra over item 3,4,5 for non- standard shape gabion boxes and mattresses | m3 | 10 | | |
| 8 | PS.F.8.9 | GEOPIPE OR SIMILAR APPROVED | m | 100 | | |
| 9 | PS.F.8.3 | Drainage grade Geofabric | m2 | 500 | | |
| 10 | PS.F.8.3 | Unpacking and packing of gabion boxes using on site gabion stones | m3 | 100 | | |
| 11 | PS.F.8.10 | Supply,deliver and install geotextile sandbags | no. | 200 | | |
| 12 | PS.F.8.11 | Supply,deliver and install interlocking water loffelstein blocks | m2 | 100 | | |
| 13 | PS.F.8.12 | Installaion of post and rail | m | 100 | | |

TOTAL CARRIED TO SECTION 6 SUMMARY: Protection Works

R

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 7 Road Works

PART EB GRADED CRUSHED STONE

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|---|---|------|----------|------|--------|
| 1 | EB.8.1 EB1234 EB12345 EB123456 | Supply, lay and compact Graded crushed stone, 150 mm thick G2 material compacted to 98% MOD A.A.S.H.T.O | m3 | 70 | | |
| 2 | EB.8.1 EB1234 EB12345 EB123456 | Supply, lay and compact Graded crushed stone, 150 mm thick G5 material compacted to 95% MOD A.A.S.H.T.O | m3 | 70 | | |
| 3 | EB.8.1 EB1234 EB12345 EB123456 | Supply, lay and compact Graded crushed stone, 200 mm thick G7 material compacted to 93% MOD A.A.S.H.T.O | m3 | 70 | | |
| 4 | EB.8.1 | Provision of 19 mm stone from commercial or off-site source | m3 | 70 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works

R

PART ED ROAD ASPHALT

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|----------------------|---|------|----------|------|--------|
| 1 | ED.8.1 | Private Plant Asphalt Sa-V14. Bitumen content % as per mix design entered at time of use. | t | 50 | | |
| 2 | ED.8.1, P.ED.9-14 | Private Plant Asphalt Sa-H20. Bitumen content % as per mix design entered at time of use. | t | 50 | | |
| 3 | ED.8.3.1 | Transverse joints | m | 25 | | |
| 4 | ED.8.3.2 | Longitudinal joints | m | 70 | | |
| 5 | ED.8.4 | Tack Coat 0.3litres/m2 | m2 | 400 | | |
| 6 | PS.ED.8.6 | Prime Coat 0.6litres/m2 | m2 | 400 | | |
| 7 | PS.ED.8.5 | Saw Cut existing road edge | m | 250 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works

R

PART EF KERBS AND HAUNCHES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|-----------|---|------|----------|------|--------|
| 1 | PS.EF.8.4 | Excavation for kerb and channel/ fillet in existing asphalt layers | m3 | 25 | | |
| 2 | EF.8.1 | Type B barrier kerb and channel | m | 150 | | |
| 3 | EF.8.1 | Type B barrier kerb and fillet | m | 150 | | |
| 4 | EF.8.1 | Extra over item 2 & 3 for curves of radius less than 25 m | m | 25 | | |
| 5 | EF.8.1 | Scoop kerb and channel (Type C - mountable) including transition kerb | m | 25 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS
Part Continued PART EF KERBS AND HAUNCHES

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|--|------|----------|------|--------|
| 6 | EF.8.2 | Additional concrete to kerb foundation where road layer thickness exceeds standard | m3 | 10 | | |
| 7 | EF.8.1 | Supply and install figure 6 kerb Type A barrier kerb | m | 100 | | |
| 8 | EF.8.1 | Supply and install figure 8 kerb Type C | m | 100 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works
R
PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|---|--|------|----------|------|--------|
| 1 | EG.8.1, PS.EG.3 EG187.7 EG1567 | Asphalt sidewalk 25mm - Asphalt Private Plant | m2 | 50 | | |
| 2 | EG.8.5, PS.EG.3 | Asphalt commercial vehicular access scoop 80mm - Asphalt Private Plant | m2 | 25 | | |
| 3 | EG.8.6, PS.EG.3 | Concrete commercial vehicular access scoop | m2 | 25 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works
R
PART EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|--|------|----------|------|--------|
| 1 | EH 8.1 | Straight steel guard rails | m | 100 | | |
| 2 | EH 8.1 | Curved steel guardrails | m | 50 | | |
| 3 | EH.8.1 | Precast concrete posts | no. | 30 | | |
| 4 | EH.8.1 | End wings | no. | 8 | | |
| 5 | EH.8.2 | In-situ concrete foundation [including channel / fillet] | m3 | 150 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works
R
PART EL DUMPROCK SUBGRADE IMPROVEMENT

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|---|--|------|----------|------|--------|
| 1 | EL.8, PS.EL.3, PS.EL.9, PS.EL.10 | Dumprock subgrade improvement, 300 mm thick | m3 | 100 | | |
| 2 | PS.EL.8.1 | Supply and place structural grade geofabric blanket to surround dumprock | m2 | 750 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works
R
PART TA ROAD SIGNS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|---|------|----------|------|--------|
| 1 | TA.8.4 | Concrete grade 20/19 for road sign footings | m3 | 5 | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

Part Continued **PART TA ROAD SIGNS**

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|--------|---|------|----------|------|--------|
| 2 | TA.8.1 | Supply and erect road sign boards, area not exceeding 2m2 | m2 | 25 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works

R

PART TB ROAD MARKINGS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|------|---------------------|--|------|----------|------|--------|
| 1 | TB.8.1.1 AA.TB.1 | Painted road lines 100mm wide (white), including setting out and premarking | m | 100 | | |
| 2 | TB.8.1.1 AA.TB.1 | Painted road lines 100mm wide (yellow), including setting out and premarking | m | 100 | | |
| 3 | TB.8.1.1 AA.TB.1 | Painted road lines 100mm wide (red), including setting out and premarking | m | 100 | | |
| 4 | TB.8.1.2 | Road Marking for lettering, symbols and traffic islands (white), including setting out lettering, symbols and traffic island markings. | m2 | 25 | | |

TOTAL CARRIED TO SECTION 7 SUMMARY: Road Works

R

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SECTION 8 Reinstatement

PART S REINSTATEMENT

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|-------------|---------------|---|-------------|-----------------|-------------|---------------|
| 1 | S.8.1 | Reinstatement of ground surface | m2 | 500 | | |
| 2 | S.8.2 | Road Category C-Permanent road reinstatement 80 mm Mix D, 150mm Crusher run, Trench backfill with CBr 4 or more | m2 | 800 | | |
| 3 | S.8.4 | Reinstatement of wire/plastic coated fence, 1,2 m - 2.1m high | m | 200 | | |
| 4 | S.8.4 | Reinstatement of guard rail and posts | m | 200 | | |
| 5 | S.8.4 | Reinstatement of bollards | m2 | 20 | | |
| 6 | S.8.2 | Reinstatement of asphalt sidewalk 25mm- Asphalt Private Plant | m2 | 200 | | |
| 7 | S.8.2 | Reinstatement of concrete sidewalk/ median - Precast slabs | m2 | 200 | | |
| 8 | S.8.2 | Reinstatement of in-situ concrete access scoop | m2 | 100 | | |
| 9 | PS.S.8.6 | Dune rehabilitation | m2 | 150 | | |
| 10 | S.8.2 | Reinstatement of paved areas | m2 | 80 | | |
| 11 | PS.S.8.7 | Reinstatement of eroded embankment | m3 | 200 | | |
| 12 | PS.S.8.8 | Reinstatement of fibre glass handrails | m | 100 | | |
| 13 | PS.S.8.9 | Reinstatement of geotextile sandbags from stockpile (rate to include include stockpile handling) | no. | 200 | | |
| 14 | PS.S.8.10 | Reinstatement of water loffestein blocks from stockpile (rate to include stockpile handling) | m2 | 100 | | |
| 15 | PS.S.8.11 | Reinstatement of road reserve | m2 | 100 | | |

TOTAL CARRIED TO SECTION 8 SUMMARY: Reinstatement

R

**COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR
THE NORTH REGION FOR A PERIOD OF 3 YEARS**

SECTION 9 Dayworks

PART AB GENERAL SPECIFICATIONS

| Item | Clause | Description | Unit | Quantity | Rate | Amount |
|-------------|---------------|---------------------------------------|-------------|-----------------|-------------|---------------|
| 1 | | Personnel: (a) Unskilled labourer | hr | 40 | | |
| 2 | | Personnel: (b) Semi-skilled labourer | hr | 40 | | |
| 3 | | Personnel: (c) Skilled labourer | hr | 40 | | |
| 4 | | Personnel: (e) Foreman | hr | 40 | | |
| 5 | | Construction equipment: (e) Excavator | day | 1 | | |
| 6 | | Construction Equipment: TLB | day | 1 | | |

TOTAL CARRIED TO SECTION 9 SUMMARY: Dayworks

R

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 Preliminary and General

| | | |
|--------------------------------|--------------------------------|--|
| PART AA | PRELIMINARIES | |
| PART AB | GENERAL SPECIFICATIONS | |
| PART AH | OCCUPATIONAL HEALTH and SAFETY | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 2 Site Clearance

| | | |
|--------------------------------|----------------|--|
| PART B | SITE CLEARANCE | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 3 Earthworks

| | | |
|--------------------------------|------------------------------|--|
| PART DA | EARTHWORKS : BULK | |
| PART DB | EARTHWORKS FOR PIPE TRENCHES | |
| PART DD | EARTHWORKS FOR STRUCTURES | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 4 Stormwater Pipe works

| | | | |
|--------------------------------|----|---|--|
| PART | PG | NON PRESSURE PIPELINES and PC CULVERTS | |
| PART | PH | MANHOLES and APPURTENANT DRAINAGE WORKS | |
| TOTAL CARRIED TO FINAL SUMMARY | | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 5 Culvert Works

| | | |
|--------------------------------|--|--|
| PART C | CONCRETE WORK | |
| PART PG | NON PRESSURE PIPELINES and PC CULVERTS | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 6 Protection Works

| | | |
|--------------------------------|------------------|--|
| PART F | PROTECTION WORKS | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 7 Road Works

| | | |
|--------------------------------|--|--|
| PART EB | GRADED CRUSHED STONE | |
| PART ED | ROAD ASPHALT | |
| PART EF | KERBS AND HAUNCHES | |
| PART EG | SIDEWALKS, FOOTPATHS and MEDIAN AREAS | |
| PART EH | STEEL GUARDRAILS & CONC. MEDIAN BARRIERS | |
| PART EL | DUMPROCK SUBGRADE IMPROVEMENT | |
| PART TA | ROAD SIGNS | |
| PART TB | ROAD MARKINGS | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 8 Reinstatement

| | | |
|--------------------------------|---------------|--|
| PART S | REINSTATEMENT | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

BILL OF QUANTITIES SECTION SUMMARY

SECTION 9 Dayworks

| | | |
|--------------------------------|------------------------|--|
| PART AB | GENERAL SPECIFICATIONS | |
| TOTAL CARRIED TO FINAL SUMMARY | | |

COASTAL STORMWATER AND CATCHMENT MANAGEMENT RATE BASED AS AND WHEN CONTRACT FOR THE NORTH REGION FOR A PERIOD OF 3 YEARS

SUMMARY OF BILL OF QUANTITIES

| | | | | |
|---|---|---|-------|-------|
| 1 | Preliminary and General | | R | _____ |
| | AA PRELIMINARIES | R | _____ | |
| | AB GENERAL SPECIFICATIONS | R | _____ | |
| | AH OCCUPATIONAL HEALTH and SAFETY | R | _____ | |
| 2 | Site Clearance | | R | _____ |
| | B SITE CLEARANCE | R | _____ | |
| 3 | Earthworks | | R | _____ |
| | DA EARTHWORKS : BULK | R | _____ | |
| | DB EARTHWORKS FOR PIPE TRENCHES | R | _____ | |
| | DD EARTHWORKS FOR STRUCTURES | R | _____ | |
| 4 | Stormwater Pipe works | | R | _____ |
| | PG NON PRESSURE PIPELINES and PC CULVERTS | R | _____ | |
| | PH MANHOLES and APPURTENANT DRAINAGE WORKS | R | _____ | |
| 5 | Culvert Works | | R | _____ |
| | C CONCRETE WORK | R | _____ | |
| | PG NON PRESSURE PIPELINES and PC CULVERTS | R | _____ | |
| 6 | Protection Works | | R | _____ |
| | F PROTECTION WORKS | R | _____ | |
| 7 | Road Works | | R | _____ |
| | EB GRADED CRUSHED STONE | R | _____ | |
| | ED ROAD ASPHALT | R | _____ | |
| | EF KERBS AND HAUNCHES | R | _____ | |
| | EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS | R | _____ | |
| | EH STEEL GUARDRAILS & CONC. MEDIAN BARRIERS | R | _____ | |
| | EL DUMPROCK SUBGRADE IMPROVEMENT | R | _____ | |
| | TA ROAD SIGNS | R | _____ | |
| | TB ROAD MARKINGS | R | _____ | |
| 8 | Reinstatement | | R | _____ |
| | S REINSTATEMENT | R | _____ | |
| 9 | Dayworks | | R | _____ |
| | AB GENERAL SPECIFICATIONS | R | _____ | |
| SUB TOTAL | | | R | _____ |
| ADD VAT (15%) - (only if a registered VAT Vendor) | | | R | _____ |
| TOTAL CARRIED TO FORM OF TENDER | | | R | _____ |