

INDEX TO BILL OF QUANTITIES

SECTION 1 PRELIMINARIES AND GENERAL SPECIFICATIONS

PART	AA	PRELIMINARIES
PART	AB	GENERAL SPECIFICATIONS
PART	AH	OCCUPATIONAL HEALTH and SAFETY

SECTION 2 UPGRADE OF STORMWATER INFRASTRUCTURE

PART	B	SITE CLEARANCE
PART	C	CONCRETE WORK
PART	DA	EARTHWORKS : BULK
PART	DB	EARTHWORKS FOR PIPE TRENCHES
PART	DC	EARTHWORKS FOR CONCRETE LINED CANALS
PART	ED	ROAD ASPHALT
PART	EF	KERBS AND HAUNCHES
PART	EH	STEEL GUARDRAILS & CONC. MEDIAN BARRIERS
PART	EL	DUMPROCK SUBGRADE IMPROVEMENT
PART	F	PROTECTION WORKS
PART	PC	STABILISATION OF GRAVEL BASE
PART	PG	NON PRESSURE PIPELINES and PC CULVERTS
PART	PH	MANHOLES and APPURTENANT DRAINAGE WORKS

SECTION 3 CONCRETE CULVERT

PART	B	SITE CLEARANCE
PART	C	CONCRETE WORK
PART	DA	EARTHWORKS : BULK
PART	DD	EARTHWORKS FOR STRUCTURES
PART	EL	DUMPROCK SUBGRADE IMPROVEMENT
PART	S	REINSTATEMENT

SECTION 4 REINSTATEMENT

PART	S	REINSTATEMENT
-------------	----------	----------------------

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

BILL OF QUANTITIES

SECTION 1 PRELIMINARIES AND GENERAL SPECIFICATIONS

PART AA PRELIMINARIES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	GCC 2015	GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA	sum	1		
		Fixed Charge obligations				
2	GCC 2015	Time Related obligations	sum	1		
3	GCC 2015	Time Related Items	sum	1		
4	C.1.2.3.1	COMMUNITY LIAISON OFFICER	PC Sum	87200	1.00	87,200.00
		Allow for a CLO to be appointed.				
5	C.1.2.3.1	% Mark-up for item 4 above	%	87200		
6	C.1.2.3.4	LOCAL LABOUR	sum	1		
		Allow for the weekly submission of proof of employment of local labour				

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES AND GENERAL SPECIFICATIONS

R

PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2	FIXED CHARGES	sum	1		
		Offices for Engineer and Staff				
2	AB.4	Contractor's Camp Site / Store Yard	sum	1		
3	PS.AB.5	Notice Board	sum	1		
4	AB.7	Road Deviations	sum	1		
5	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
6	PS.AB.2.5	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
7	PS.15	Allow for the following Additional Items which the tenderer requires to be priced separately :-	sum	1		
		a)				
8	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

Part Continued **PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
10	PS.14	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
11	PS.AB.6	Deduction for re-test requested when density and cube tests is not as per specification as determined by acceptance testing (-R1000day/set)	set	0		
12	PS.13	Setting out	sum	1		
13	PS.11	Site security	sum	1		
14	C.1.2.3.7	Excepted Risks: Establishment	sum	1		
15	C.1.2.3.7	Excepted Risks: De-establishment	sum	1		
16	PS.16/ PS.AB.15	Stream diversion	PC Sum	100000	1.00	100,000.00
17	PS.17	Road crossing structure	sum	1		
18	AB.2	Services Connection Fee (electrical/ water/ telephone)	PC Sum	50000	1.00	50,000.00
19	AB.7	Traffic control	sum	1		
20	PS.9	Allow for legal private house connection to the municipal stormwater system	PC Sum	80000	1.00	80,000.00

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARIES AND GENERAL SPECIFICATIONS

R

PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
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: PRELIMINARIES AND GENERAL SPECIFICATIONS

R

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

SECTION 2 UPGRADE OF STORMWATER INFRASTRUCTURE

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing within a servitude/Working area	m2	550		
2	B.8.2	General clearance and grubbing in contractor's camp site	m2	300		
3	B.8.2	General clearance and grubbing in temporary stockpile area	m2	250		
4	B.8.14	Removal of roadways to tip	m3	20		
5	B.8.16	Removal of kerb and channel/fillet to tip	m3	15		
6	B.8.10	Removal of unreinforced concrete	m3	10		
7	B.8.19	Removal of disused pipes, 375 - 1350 mm diameter and spoil at tip. Rate to include all haulage	m	65		
8	B.8.18	Removal of excess scarified material to spoil. Rate to include all haulage and royalties	m3	225		
9	PS.B.9	Demolition of the existing damaged manholes and inlets and spoil at tip.	no.	8		
10	B.8.3	Pipe jetting, cleaning of the stormwater pipe and removal of silt. Rate to include all machinery and plant required to clean the stormwater pipes and spoil at tip.	m	100		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Supply and pour in place Grade 15/19 concrete blinding of thickness 50 mm	m2	60		
2	C.8.1	Supply and pour in place Grade 25/19 concrete mass fill for stormwater concrete channel.	m3	55		
3	C.8.3	Class 3a shuttering to concrete channel walls.	m2	125		
4	C.8.3	Class 3a shuttering to concrete channel walls.	m2	100		
5	C.8.2	High tensile steel fabric reinforcement (Wire Mesh) ref: 245	t	4		
6	C.8.3	Bitumastic sealant to joints	m	50		

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE					R	

PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2	Excavate topsoil that is suitable and stockpile	m3	25		
2	DA.8.2	Excavate topsoil that is unsuitable and spoil at tip (Rate inclusive of haulage and royalties)	m3	250		
3	DA.8.3	Extra over above for excavation of hard material to spoil	m3	80		
4	DA.8.4/ PS.DA.5	Import suitable fill material from contractor's off-site source inclusive of haulage and royalties	m3	850		
5	DA.8.5	Compact imported fill material to 93% Mod. A.A.S.H.T.O.	m3	850		
6	DA.8.6	Trimming of embankments	m2	400		
7	DA.8.7	Stockpile handling of suitable material to fill	m3	25		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

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 150 mm	m2	700		
2	DB.8.5	Excavate and backfill in all material where depth is:- Over 0,0 m and not exceeding 1,5 m	m3	1050		
3	DB.8.5	Excavate and backfill in all material where depth is:- Over 1,5 m and not exceeding 2,0 m	m3	40		
4	DB.8.6	Extra over item 1-2 for hard material	m3	50		
5	DB.8.10	Placing and compacting of Class C pipe bedding.	m	500		
6	DB.8.9/ PS.DB.8.21	Provision of clean suitable selected fill material for pipe bedding from commercial or off-site source (Rate to include all haulage and royalties)	m3	225		

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

Part Continued **PART DB EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
7	DB.8.19	Prove existing services by hand excavation (provisional), where depth is: - - Over 1,5 m and not exceeding 2,0 m	m3	15		
8	DB.8.19	Prove existing services by hand excavation (provisional), where depth is: - - Over 0,0 m and not exceeding 1,5 m	m3	5		
9	DB.5.15/ PS.DB.8.21	Disposal of unsuitable or surplus material from trench excavation (Rate to include all haulage and royalties)	m3	150		
10	DB.8.8	Excavation of unsuitable material from trench bottom and spoil at tip	m3	40		
11	DB.8.13	Provision of 19 mm stone chippings for subsoil drain from commercial or off-site source	m3	15		
12	PS.DB.8.22	Provision of drainage grade geofabric	m2	60		
13	PS.DB.8.6	Lateral support system	PC Sum	100000	1.00	100,000.00

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART DC EARTHWORKS FOR CONCRETE LINED CANALS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DC.8.2	Excavate in soft material to stockpile	m3	25		
2	DA.8.2	Excavate in all unsuitable material for gabions to spoil at an approved tip (Rates to include all haulage and royalties)	m3	175		
3	DA.8.2	Excavate in all suitable material for gabions to stockpile (Rates to include all stockpile handling)	m3	100		
4	DC.8.2	Extra over item 2-3 for excavating in hard material	m3	50		
5	DC.8.4	Overhaul	m3km	110		
6	DC.8.3	Backfilling and compaction using material from contractor's own source. Rate to include all haulage and royalties	m3	850		
7	DC.8.3	Backfilling and compaction using material from stockpile	m3	55		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.ED.8.5	Saw Cut existing road edge	m	500		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Type B barrier kerb and channel	m	500		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

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	10		
3	EH.8.1	End wings	no.	2		
4	EH.8.1	Guardrail Timber posts (1.8 m X 200 mm gumpole CCA treated H4)	no.	30		
5	EH.8.2	Cast In-situ concrete foundation for the Timber posts	m3	10		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART EL DUMPROCK SUBGRADE IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8	Dumprock subgrade improvement, 300 mm thick	m3	580		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Topsoiling from material on stockpile: Thickness 100 mm	m2	25		
2	PS.F.8.9	Supply and place general grade geofabric	m2	1050		
3	F.8.6	Supply and install PVC coated galvanised gabion mattresses, 300 mm thick	m3	125		
4	F.8.6/ PS.F.8.6	Supply and install PVC coated galvanised gabion boxes : 1000 mm depth	m3	810		

Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive, Umhlanga, Ward 35

Part Continued PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
5	PS.F.8.10/ PS.F.8.11	Unpacking and reinstatement of the existing gabion wall (This item should include the supply and installation of NEW PVC coated wire boxes where required and stockpiling handling)	m3	50		
6	F.8.3	Grass planting	m2	565		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART PC STABILISATION OF GRAVEL BASE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PC.7.3	Additive for bitumen stabilisation: (a) Portland Cement (5% application)	t	10		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	Supply and install 450 mm diameter concrete Class 100D	m	50		
2	PG.8.2	Supply and install a 110 subsoil perforated drainage pipe	m	125		
3	PG.8.2	Supply and install 600 mm diameter stormwater HDPE (4kN/m2) structured wall pipe. Rate to include 600 mm diameter 4kN HDPE Collar.	m	500		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

PART PH MANHOLES and APPURTENANT DRAINAGE WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PH.8.2	Manhole type A with heavy duty concrete cover. Depth :- - Over 1,5 m and not exceeding 2,0 m	no.	4		
2	PH.8.3	Standard inlet type S2. Depth :- - Over 1,0 m and not exceeding 2,0 m	no.	2		
3	PH.8.3	Standard inlet type D3. Depth :- - Over 1,0 m and not exceeding 2,0 m	no.	2		
4	PH.8.3	Partly demolish and reconstruct a standard inlet type D3 to suit road widening (Refer drawing No. 38576) Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	1		

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
5	PS.PH.8.2	Construct an outlet and an inlet over an existing [600 - 1050] mm diameter pipe	no.	4		
6	PH.8.2	Manhole type A with inlet type cover D4. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	1		
7	PH.8.3	Standard inlet type D4. Depth :- - Over 0,0 m and not exceeding 1,5 m	no.	2		
8	PS.PH.8.2	Converting a type S1 inlet to a type S2 inlet	no.	2		

TOTAL CARRIED TO SECTION 2 SUMMARY: UPGRADE OF STORMWATER INFRASTRUCTURE

R

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

SECTION 3 CONCRETE CULVERT

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing within a working area	m2	100		
2	B.8.2	General clearance of the site area and the stream, removal of debris, garbage and the damaged concrete structures. Rate to include all haulage and royalties.	m2	200		
3	B.8.9	Removal of brickwork	m3	10		
4	B.8.14	Removal of roadways to tip	m3	10		
5	B.8.15	Removal of asphalt sidewalks/medians to tip	m3	40		
6	B.8.16	Removal of kerb and channel/fillet to tip	m3	5		
7	B.8.19	Removal of disused pipes, greater than 800 mm diameter (existing concrete pipe culvert) and dispose at tip. Rate to include all plant and equipment required to excavate and break the concrete pipe culvert.	m	20		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

R

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1/ PS.C.1/ PS.C.5.6.1	Supply and pour in place Grade 15/19 concrete blinding of thickness 75 mm	m2	45		
2	C.8.1/ PS.C.1/ PS.C.5.6.1	Supply and pour in place Grade 35/19 concrete for cast-in-situ base slabs.	m3	40		
3	C.8.1/ PS.C.1/ PS.C.5.6.1	Supply and pour in place Grade 35/19 concrete for cast-in-situ culvert walls	m3	45		
4	C.8.1/ PS.C.1/ PS.C.5.6.1	Supply and pour in place Grade 35/19 concrete for cast-in-situ deck slab	m3	35		
5	C.8.1/ PS.C.1/ PS.C.5.6.1	Supply and pour in place Grade 35/26 concrete for cast-in-situ wingwalls	m3	35		
6	C.8.2/ PS.C.5.1.3	Supply and fix in place high tensile steel reinforcement (bars)	t	15		
7	C.8.3/ PS.C.5.2.1	Supply and fix in place class 1 shuttering to base slabs	m2	75		
8	C.8.3/ PS.C.5.2.1	Supply and fix in place class 2 shuttering to culvert walls	m2	110		

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

Part Continued PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	C.8.3/ PS.C.5.2.1	Supply and fix in place class 2 shuttering to soffit of deck slab	m2	80		
10	C.5.14/ PS.C.8.4	Flexible expanded foam in expansion joints	m2	30		
11	PS.C.8.4	Bitumastic sealant to joints	m	45		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

R

PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3	Excavate soft material to stockpile	m3	50		
2	DA.8.5	Import suitable fill material from contractor's off-site source inclusive of haulage and royalties	m3	250		
3	DA.8.5	Compact soft material from stockpile and material from contractors off-site source to 93% Mod. A.A.S.H.T.O.	m3	300		
4	DA.8.6	Trimming of embankments	m2	90		
5	DA.8.9	Formation	m2	45		
6	DA.8.3	Extra over for excavation in hard material to stockpile	m3	50		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

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	50		
2	DD.8.2	Excavate in all unsuitable material for culvert to spoil	m3	10		
3	DD.8.2	Extra over item 1-2 for hard material	m3	20		
4	DD.8.3	Backfill and compact using material from stockpile	m3	100		
5	DD.8.3	Backfill and compact using imported material from contractor's own source. Rate to include all haulage and royalties	m3	250		
6	DD.8.5	Culvert bedding ([19] mm stone mat)	m3	15		
7	PS.DD.8.6	Design, installation and removal of a ground lateral support system to secure the excavated surfaces	sum	1		

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

Part Continued **PART DD EARTHWORKS FOR STRUCTURES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
8	DD.8.4	Overhaul	m3km	100		
9	DD.8.2	Restricted excavation in all material for apron slab key to spoil	m3	5		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

R

PART EL DUMPROCK SUBGRADE IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8	Dumprock subgrade improvement, 300 mm thick	m3	50		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

R

PART S REINSTATEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.1	Reinstatement of ground surface	m2	100		
2	S.8.2	Reinstatement of asphalt sidewalk 25mm- Asphalt Private Plant	m2	40		
3	S.8.2	Permanent road reinstatement 150 mm sub base 200mm Asphalt - Asphalt Private Plant	m2	75		

TOTAL CARRIED TO SECTION 3 SUMMARY: CONCRETE CULVERT

R

**Upgrade and installation of stormwater infrastructure along Oakleigh Avenue and William Campbell Drive,
Umhlanga, Ward 35**

SECTION 4 REINSTATEMENT

PART S REINSTATEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.1	Reinstatement of ground surface	m2	550		
2	S.8.1	Reinstatement of ground surface on pipeline route	m2	450		
3	S.8.1	Reinstatement of ground surface on temporary stockpile site	m2	400		
4	S.8.1	Reinstatement of ground surface at temporary pipeyard	m2	50		
5	S.8.2	Permanent road reinstatement 150 mm sub base 80mm Asphalt - Asphalt Private Plant	m2	80		
6	S.8.2	Reinstatement of Asphalt sidewalk	m2	20		
7	S.8.2	Reinstatement of paved areas - concrete paving	m2	10		
8	S.8.4	Reinstatement of guard rail and posts	m	60		
9	PS.S.8.11	Supply and plant vertiver grass on the embankments	m2	200		

TOTAL CARRIED TO SECTION 4 SUMMARY: REINSTATEMENT

R

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 PRELIMINARIES AND GENERAL SPECIFICATIONS

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 UPGRADE OF STORMWATER INFRASTRUCTURE**

PART B	SITE CLEARANCE	
PART C	CONCRETE WORK	
PART DA	EARTHWORKS : BULK	
PART DB	EARTHWORKS FOR PIPE TRENCHES	
PART DC	EARTHWORKS FOR CONCRETE LINED CANALS	
PART ED	ROAD ASPHALT	
PART EF	KERBS AND HAUNCHES	
PART EH	STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	
PART EL	DUMPROCK SUBGRADE IMPROVEMENT	
PART F	PROTECTION WORKS	
PART PC	STABILISATION OF GRAVEL BASE	
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 3 CONCRETE CULVERT

PART	B	SITE CLEARANCE	
PART	C	CONCRETE WORK	
PART	DA	EARTHWORKS : BULK	
PART	DD	EARTHWORKS FOR STRUCTURES	
PART	EL	DUMPROCK SUBGRADE IMPROVEMENT	
PART	S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY

SECTION 4 REINSTATEMENT

PART S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

SUMMARY OF BILL OF QUANTITIES

1	PRELIMINARIES AND GENERAL SPECIFICATIONS		R	
AA	PRELIMINARIES	R		
AB	GENERAL SPECIFICATIONS	R		
AH	OCCUPATIONAL HEALTH and SAFETY	R		
2	UPGRADE OF STORMWATER INFRASTRUCTURE		R	
B	SITE CLEARANCE	R		
C	CONCRETE WORK	R		
DA	EARTHWORKS : BULK	R		
DB	EARTHWORKS FOR PIPE TRENCHES	R		
DC	EARTHWORKS FOR CONCRETE LINED CANALS	R		
ED	ROAD ASPHALT	R		
EF	KERBS AND HAUNCHES	R		
EH	STEEL GUARDRAILS & CONC. MEDIAN BARRIERS	R		
EL	DUMPROCK SUBGRADE IMPROVEMENT	R		
F	PROTECTION WORKS	R		
PC	STABILISATION OF GRAVEL BASE	R		
PG	NON PRESSURE PIPELINES and PC CULVERTS	R		
PH	MANHOLES and APPURTENANT DRAINAGE WORKS	R		
3	CONCRETE CULVERT		R	
B	SITE CLEARANCE	R		
C	CONCRETE WORK	R		
DA	EARTHWORKS : BULK	R		
DD	EARTHWORKS FOR STRUCTURES	R		
EL	DUMPROCK SUBGRADE IMPROVEMENT	R		
S	REINSTATEMENT	R		
4	REINSTATEMENT		R	
S	REINSTATEMENT	R		
SUB TOTAL			R	
ADD VAT (15%) - (only if a registered VAT Vendor)			R	
TOTAL CARRIED TO FORM OF TENDER			R	