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BILL OF QUANTITIES**SECTION 1 Preliminaries and General****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 Fixed Charge obligations	sum	1		
2	GCC 2015	Time Related obligations	sum	1		
3	SANS 1921-1 & SABS 1200 A	SANS 1921-1 & SABS 1200 A: GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS Fixed Charge Items	sum	1		
4	SANS 1921-1	Time Related Items	sum	1		
5	C.1.2.3.1	COMMUNITY LIAISON OFFICER Allow for a CLO to be appointed.	PC Sum	108984.96	1.00	108,984.96
6	C.1.2.3.1	% Mark-up for item 5 above	%	108984.96		
7	C.1.2.3.4	LOCAL LABOUR Allow for the weekly submission of proof of employment of local labour	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminaries and General**R****PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AB.14	Setting out	sum	1		
2	PS.AB.14	Additions to setting out (fixing of control points)	sum	1		
3	AB.4	Contractor's Camp Site / Store Yard	sum	1		
4	AB.5	Notice Board	sum	1		
5	PS.AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
6	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
7	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
8	PS.AB.8	Road Deviations (Temporary by-pass of Type C category)	sum	1		

Stormwater Upgrade near Ntombi Mbiko Street (Street 120355), Inanda Bhambayi Area, Ward 54**Part Continued PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
9	PS.AB.9	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
10	PS.AB.15	Temporary construction, maintenance and removal of stream diversion	sum	1		
11	PS.AB.10	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
12	C1.2.3.7	Excepted Risks: Establishment	sum	1		
13	C1.2.3.7	Excepted Risks: De-establishment	sum	1		
14	PS.11	Site Security	PC Sum	316696.2	1.00	316,696.20
15	PS.AB.16	Construction of site access for all machinery and materials to be used on site. Rate to include the maintenance of the constructed site access throughout the duration of the project.	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminaries and General**R****PART AH OCCUPATIONAL HEALTH and SAFETY**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.AH.10	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	PS.AH.10	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	PS.AH.10	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminaries and General**R**

Stormwater Upgrade near Ntombi Mbiko Street (Street 120355), Inanda Bhambayi Area, Ward 54
SECTION 2 Concrete Channel
PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance of the site area (including removal of all overgrown vegetation) and remove all debris such as gabbage from the site and spoil at approved tip. Rate to include all haulage	m2	150		
2	B.8.2	General clearance and grubbing along the stream (minor stream)	m2	520		
3	B.8.2	General clearance and grubbing in contractor's camp site	m2	100		
4	B.8.2	General clearance and grubbing in temporary stockpile area	m2	100		
5	B.8.10	Removal of unreinforced concrete	m3	1		
6	B.8.11	Removal of reinforced concrete	m3	1		
7	B.8.19	Removal of disused pipes, 0 - 300 mm diameter and spoil at tip. Rate to include all haulage	m	15		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel
R
PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 15/26 concrete blinding of thickness 75 mm	m2	936		
2	C.8.1	Grade 30/26 concrete in channel	m3	275		
3	C.8.1	Grade 30/26 concrete in apron slabs of culvert	m3	5		
4	C.8.1	Grade 30/26 concrete in wing walls of culvert	m3	15		
5	C.8.2	High tensile steel reinforcement	t	28.5		
6	C.8.3	Class 3a shuttering to channel	m2	145		
7	C.8.3	Class 3a shuttering to apron slabs of culvert	m2	84		
8	C.8.3	Class 3a shuttering to wing walls of culvert	m2	6		
9	PS.C.2	Sealant in expansion joint POLYSULPHIDE OR SIMILAR APPROVED (Applied strictly to manufacturers instruction)	m	936		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel
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Stormwater Upgrade near Ntombi Mbiko Street (Street 120355), Inanda Bhambayi Area, Ward 54**PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3	Excavate unsuitable material below embankments or formation and spoil at tip	m3	280		
2	PS.DA.5	Import suitable fill material from contractor's off-site source inclusive of all haulage and royalties	m3	100		
3	DA.8.5	Compact imported fill material to 93% Mod. A.A.S.H.T.O.	m3	100		
4	DA.8.6	Trimming of embankments	m2	260		
5	DA.8.9	Formation	m2	520		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel**R****PART DC EARTHWORKS FOR CONCRETE LINED CANALS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DC.8.2	Excavate in all unsuitable material for gabions to spoil at an approved tip. Rate to include stockpile handling.	m3	30		
2	DC.8.3	Backfilling and compaction using material from contractor's own source to 93% Mod A.A.S.H.T.O. Rate to include all haulage and royalties	m3	15		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel**R****PART DD EARTHWORKS FOR STRUCTURES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2	Excavate in all unsuitable material for channel to spoil at an approved tip. Rate to include all haulage	m3	890		
2	PS.DD.5	Prove existing services by hand excavation (provisional) along the channel where depth is: - - Over 0,0 m and not exceeding 1.0 m	m	130		
3	DD.8.3	Backfill and compact using imported material from contractor's own source to 93 % Mod A.S.S.H.T.O. Rate to include all haulage and royalties	m3	600		
4	PS.DD.2	Design, installation and removal of a ground lateral support system to secure the excavated surfaces	sum	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel**R****PART EL DUMPROCK SUBGRADE IMPROVEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8	Dumprock subgrade improvement, 300 mm thick	m3	270		

Stormwater Upgrade near Ntombi Mbiko Street (Street 120355), Inanda Bhambayi Area, Ward 54**PART EL DUMPROCK SUBGRADE IMPROVEMENT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
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TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel

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PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1	Imported topsoiling: thickness 100 mm	m2	130		
2	F.8.3	Grass planting	m2	130		
3	F.8.6	Supply and placement of Galvanised PVC Coated Gabion boxes: 1000 mm depth	m3	15		
4	F.8.6	Supply and placement of Galvanised PVC Coated Gabion boxes: 500 mm depth	m3	15		
5	F.8.6	Supply and placement of Galvanised PVC Coated Gabion mattresses: 300 mm thick	m3	8		
6	PS.F.3	Supply and place general grade geofabric	m3	35		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel

R

PART L STRUCTURAL WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1		Structural steel: Temporary removal and reinstatement of the existing pedestrian bridge to allow for the construction of the concrete channel. Rate to include; removal of the pedestrian bridge and storage, reinstatement of bridge structure inclusive of all items necessary for the full & complete construction of the bridge structure (inclusive of handrail) including transportation and installation, the removal and disposal of the existing walkway panels, supply and installation of new walkway panels to engineers specification, re-coating/painting of the existing bridge elements.	sum	1		

TOTAL CARRIED TO SECTION 2 SUMMARY: Concrete Channel

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Stormwater Upgrade near Ntombi Mbiko Street (Street 120355), Inanda Bhambayi Area, Ward 54
SECTION 3 Reinstatement
PART S REINSTATEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.1	Reinstatement of ground surface	m2	130		
2	S.8.1	Reinstatement of ground surface on temporary stockpile site	m2	100		
3	PS.S.1	Reinstatement of the ground surface and items removed/demolished along the constructed site access. Rate to include all associated ancillary works.	sum	1		
4	PS.S.2	Realignment of sewer network as specified on site by the engineer. Rate to include the removal and disposal of the existing sewer network along the channel, supply and installation of 5 new sewer manholes and 115m of sewer pipes (160mm nominal diameter). All surplus material is to be disposed at an approved tip.	sum	1		
5	PS.S.3	Reinstatement of any minor services within the site footprint such as damaged watermains, septic tank connections and drainage networks. Rate to include all associated ancillary works.	sum	1		

TOTAL CARRIED TO SECTION 3 SUMMARY: Reinstatement
R

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 Preliminaries and General

PART	AA	PRELIMINARIES	
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TOTAL CARRIED TO FINAL SUMMARY			

BILL OF QUANTITIES SECTION SUMMARY**SECTION 2 Concrete Channel**

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TOTAL CARRIED TO FINAL SUMMARY		

BILL OF QUANTITIES SECTION SUMMARY

SECTION 3 Reinstatement

PART S	REINSTATEMENT	
TOTAL CARRIED TO FINAL SUMMARY		

SUMMARY OF BILL OF QUANTITIES

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	C	CONCRETE WORK	R	
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	DD	EARTHWORKS FOR STRUCTURES	R	
	EL	DUMPROCK SUBGRADE IMPROVEMENT	R	
	F	PROTECTION WORKS	R	
	L	STRUCTURAL WORK	R	
3	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