

BILL OF QUANTITIES**SECTION 1 Road Crossing****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	SANS 1921-1	SANS 1921-1 : GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS	sum	1		
		Fixed Charge Items				
4	SANS 1921-1	Time Related Items	sum	1		
5	PS.13	COMMUNITY LIAISON OFFICER	PC Sum	38400	1.00	38 400.00
		Allow for a CLO to be appointed.				
6	C.1.2.3.1	% Mark-up for Item 5 above	%	38400		
7	C.1.2.3.2	LOCAL LABOUR	sum	1		
		Allow for the weekly submission of proof of employment of local labour				

TOTAL CARRIED TO SECTION 1 SUMMARY: Road Crossing

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PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.5	Notice Board	sum	1		
2	AB.7	Road Deviations	sum	1		
3	PS.15	Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
4	PS.14	Allow for the following Additional Items which the tenderer requires to be priced separately :-	sum	1		
		a)				
5	PS.14	b)	sum	1		

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Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
6	PS.14	c)	sum	1		
7	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
8	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
9	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
10	PS.13	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
11	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
12	PS.11	site security	sum	1		

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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. To include COVID-19 safety file.	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Road Crossing

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PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2	General clearance and grubbing in road reserve	m2	56		
2	B.8.2	General clearance and grubbing within a servitude	m2	50		
3	B.8.9	Removal of brickwork	m3	4		
4	B.8.5	removal of a 2m high precast concrete fence and store on site for re-use.	m	8		
5	B.8.15	removal of asphalt sidewalks/medians to tip	m3	30		

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Part Continued **PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
6	B.8.19	removal of disused pipes, 300-500 mm diameter and spoil at tip. Rate to include all haulage	m	18		

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PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	grade 25/26 concrete in base slabs. Slump test to be done prior to all concrete pouring as described in the specifications under section C.5.6.2.	m3	4		
2	C.8.2	galvanised high tensile steel reinforcement to base slabs and key as per the standard drawing 38576	t	0.028		
3	C.8.3	class 4 shuttering to base slabs	m2	15		
4	C.8.3	class 2 shuttering to base slab key	m2	8		

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PART DA EARTHWORKS : BULK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3	Excavate soft material to spoil	m3	350		
2	DA.8.4	Import suitable fill material from contractor's off-site source inclusive of haulage and royalties	m3	208		
3	DA.8.5	Compact imported fill material to 95% M.O.D.A.A.S.H.T.O.	m3	208		
4	DA.8.6	Trimming of embankments (battering of 1:12 at the outlet)	m2	40		

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PART DB EARTHWORKS FOR PIPE TRENCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.5	Excavate and backfill in all material for 900 mm diameter pipe where depth is :- Over 0,0 m and not exceeding 1,5 m	m3	30		
2	DB.8.5	Excavate and backfill in all material for 900 mm diameter pipe where depth is :- Over 1,5 m and not exceeding 2,0 m	m3	25		

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
3	DB.8.11	Concrete bedding cradle grade 20/26. the rate shal include; provision of coconerte to place of deposition, placing and forming bedding craddle, all formwork required, provision and construction of joints, disposal of surplus material.	m3	25		
4	DB.8.20	Trench shoring	m2	130		
5	DB.8.19	Prove existing services by hand excavation (provisional), where depth is: - - Over 1,5 m and not exceeding 2,0 m	m3	4		

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PART EF KERBS AND HAUNCHES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	supply and lay Type A barrier kerb and channel	m	15		

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PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EG.8.1	Asphalt sidewalk 25mm - Asphalt Private Plant - Mix D. As per existing sidewalk specification, this will be done when reinstating the sidewalk partly demolished during pipe laying.	m2	12		

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PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.6	Gabion boxes : 500 mm depth (1000mm X 1000mm)	m3	3		
2	F.8.6	Gabion boxes : 1000 mm depth (1000mm X 1000mm)	m3	20		
3	F.8.6	Gabion mattresses, 300 mm thick (2000mm X 1000mm)	m3	12		

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PART PG NON PRESSURE PIPELINES and PC CULVERTS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.2	supply and lay 900 mm diameter concrete Class 100D (spigot & socket).	m	25		

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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 0,0 m and not exceeding 1,5 m. the existing manhole servicing the pipeline parallel to the road will have to be demolished during road crossing pipe laying and reinstated upon completing pipe laying and backfilling.	no.	1		

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PART S REINSTATEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	S.8.2	Permanent road reinstatement. See table S.5.1.3 and compare to the core test results.	m2	263		
2	S.8.1	Reinstatement of ground surface	m2	20		
3	S.8.4	Reinstatement of precast concrete fence 2m high	m	8		

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