

INDEX TO BILL OF QUANTITIES**SECTION 1 PRELIMINARY AND GENERAL****PART AA PRELIMINARIES****PART AB GENERAL SPECIFICATIONS****PART AH OCCUPATIONAL HEALTH and SAFETY****SECTION 2 SITE CLEARANCE****PART B SITE CLEARANCE****SECTION 3 EARTHWORKS****PART DA EARTHWORKS : BULK****PART DD EARTHWORKS FOR STRUCTURES****PART EL DUMPROCK SUBGRADE IMPROVEMENT****SECTION 4 ROADWORKS****PART EB GRADED CRUSHED STONE****PART ED ROAD ASPHALT****PART EF KERBS AND HAUNCHES****SECTION 5 PROTECTION WORKS****PART F PROTECTION WORKS****SECTION 6 CONCRETE WORKS****PART C CONCRETE WORK****SECTION 7 ROAD SIGNS AND MARKINGS****PART TA ROAD SIGNS****PART TB ROAD MARKINGS**

BILL OF QUANTITIES**SECTION 1 PRELIMINARY 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	sum	1		
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		
4	SANS 1921-1	Time Related Obligations	sum	1		
5	C.1.2.3.1	COMMUNITY LIAISON OFFICER	PC Sum	60000	1.00	60 000.00
		Allow for CLO to be appointed and monthly submission of proof of employment and payment for the CLO.				
6		Handling costs etc. in respect of Item 5 above. Tenderer to state % markup. (Markup =%)	%	60000		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.4 PS.AB.1.2	Contractor's Camp Site / Store Yard	sum	1		
2	AB.5 PS.AB.6	Notice Board	sum	1		
3	AB.7 PS.AB.4	Road Deviations	sum	1		
4	AB.7.2	Initial supply of all signs, barricades and delineators	sum	1		
5	AB.7.1	Maintenance of Pedestrian and Traffic Facilities	sum	1		
6	AB.7.2	Maintenance of all signs, barricades and delineators	sum	1		
7	PS.AB.5	Allow for Progress Photographs	PC Sum	250	1.00	250.00
8		Handling costs etc. in respect of Item 7. Tenderer to state % markup. (Markup =%)	%	250		
9	PS.11	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
10	PS.11	Preparation and submission of Materials 'As-Built' Report	sum	1		

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79

Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
11	PS.13 AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
12		Allow the following additional items which the tenderer required to be priced separately :-	sum	1		
13		a)	sum	1		
14		b)	sum	1		
15		c)	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

PART AH OCCUPATIONAL HEALTH and SAFETY

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<u>The Tenderer shall ensure that the total sum of Part AH shall not be less than one percent (1%) of the Tender Amount (excluding VAT)</u>				
1	AH.14.1 PS.10	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2 PS.10	Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
3	AH.14.3 PS.10	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79**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	180		
2	B.8.14 PS.B.1 PS.14	Removal of existing roadways to tip.	m3	30		
3	B.8.4 PS.B.3	Removal of trees of girth exceeding 0,250 m to tip as directed by Engineer on Site	no.	5		
4	B.8.9 PS.B.4 PS.12	Removal of brickwork to tip as directed by Engineer on Site	m3	5		
5	B.8.10 PS.B.5 PS.12	Removal of unreinforced concrete to tip as directed by Engineer on Site	m3	5		
6	B.8.11 PS.B.5 PS.12	Removal of reinforced concrete to tip as directed by Engineer on Site	m3	5		
7	B.8.5 PS.B.6	Removal of wire fence and store on site (camp site / store yard) for re-use or to tip as directed by Engineer on Site	m	150		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE**R**

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SECTION 3 EARTHWORKS**PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.3 PS.DA.3 PS.12	Excavate soft material to spoil	m3	150		
2	DA.8.3 PS.DA.2 PS.DA.3 PS.12	Extra over Item 1 for the excavation of intermediate material to spoil as directed by Engineer on Site	m3	30		
3	DA.8.3 PS.DA.2 PS.DA.3 PS.12	Extra over Item 1 for excavation of hard material (no blasting) to spoil as directed by Engineer on Site	m3	54		
4	DA.8.3 PS.DA.2 PS.DA.3 PS.12	Extra over Item 1 for the excavation of boulders greater than 0,15 m3 to spoil as directed by Engineer on Site	m3	45		
5	PS.DA.5 DA.8.4	Import and process suitable G9 fill material from contractor's off-site source inclusive of haulage and royalties	m3	43		
6	DA.8.5 PS.DA.6	Compact imported G9 fill material to 93% Mod. A.A.S.H.T.O.	m3	43		
7	DA.8.9 PS.13 PS.DA.7/8	Formation	m2	280		
8	PS.DA.5 PS.13	Import and process suitable G7 material from contractor's off-site source inclusive of haulage and royalties	m3	45		
9	DA.8.5 PS.DA.6	Compact imported G7 material to 95% Mod. A.A.S.H.T.O.	m3	45		
10	DA.8.6	Trimming of embankments	m2	120		
11	DB.8.19	Proving of existing services by hand excavation (provisional), where depth is :- Over 0,0m and not exceeding 1,5m	m3	10		
12	PS.13 AB.6	Allow for testing of subgrade by a SANAS accredited Specialist Materials Testing Laboratory as directed by Engineer on Site	PC Sum	15000	1.00	15 000.00
13		Handling costs etc. in respect of Item 14. Tenderer to state % markup. (Markup =%)	%	15000		
14	DA.8.3 PS.DA.3 PS.DA.4 PS.12	Excavate for un-suitable material below formation.	m3	60		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2 PS.F.3 PS.12	Excavate in all material for TB300 or approved equivalent retaining wall and wall base to spoil at approved tip and as directed by Engineer on Site	m3	5		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

PART EL DUMPROCK SUBGRADE IMPROVEMENT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8.1	Dumprock subgrade improvement	m3	40		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79

SECTION 4 ROADWORKS**PART EB GRADED CRUSHED STONE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EB.8.1 PS.EB.1	Graded crushed stone G2, 150mm thick compacted to 98% Mod.A.A.S.H.T.O	m3	45		
2	EB.8.1 PS.EB.1	Graded crushed stone G5, 150mm thick compacted to 95% Mod.A.A.S.H.T.O	m3	45		
3	EB.8.2 PS.EB.2	Prime Coat @ 0,6litres/m2	m2	240		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R**PART ED ROAD ASPHALT**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	ED.8.1 PS.ED.1/2/4/5/ 6/7/8/9	Private Plant Asphalt Sa-S14. Bitumen content % as per mix design entered at time of use.	t	25		
2	PS.ED.8	Saw Cut existing road edge	m	120		
3	ED.8.4	Tack Coat @ 0,3litres/m2	m2	280		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R**PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1 PS.EF.1	Supply and lay Fig.6 Type F mountable and concrete fillet as detailed on Drawing No.48957	m	65		
2	EF.8.1	Extra over Item1 for curves of radius less than 25 m	m	20		
3	PS.EF.2	Supply and lay Fig.12 kerb edge restraint as detailed on Drawing No.48957	m	55		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R

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SECTION 5 PROTECTION WORKS**PART F PROTECTION WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1 PS.F.1	Imported, process and compact topsoil: thickness 100 mm	m2	120		
2	F8.3 PS.F.11	Supply and lay Grass sodding (Cynodon Dactylon - Creepy Variety).	m2	120		
3	PS.F.9	Supply and lay plantable interlocking TB300 or approved equivalent earth retaining system blocks as detailed on Drawing No.48957 and as directed by Engineer on Site	m2	30		
4	PS.F.2 PS.F.5	Supply and install 50mm weepholes to earth retaining system as detailed on Drawing No.48957.	no.	20		
5	PS.F.7	Re-erect 1.8m high wire Mesh fence using materials stored on site.	m	100		

TOTAL CARRIED TO SECTION 5 SUMMARY: PROTECTION WORKS

R

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79

SECTION 6 CONCRETE WORKS**PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.C.1/2/3/4/6	Supply and place Grade 15/19 mass concrete in and between top row of blocks as detailed on Drawing No.48957 and as directed by Engineer on Site	m3	1		
2	PS.C.1/2/3/4/5/7	Supply and place Grade 25/26 concrete for cast insitu Base Type A including mesh ref.245, excavation and compaction of sub-grade to 95% Mod. A.A.S.H.T.O as detailed on Drawing No.48957	m3	4		

TOTAL CARRIED TO SECTION 6 SUMMARY: CONCRETE WORKS

R

Chester Cele Crescent Rd Widening in Umlazi-G of Ward 79

SECTION 7 ROAD SIGNS AND MARKINGS**PART TA ROAD SIGNS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TA.8.1 PS.TA.1/2/5/6/ 7	Supply and erect road sign boards, area not exceeding 2m2	no.	2		
2	TA.8.2 PS.TA.3	Supply and erect standard 76mm diameter hotted dipped galvanised road name sign supports. Rate to include haulage.	no.	2		
3	TA.8.3 PS.DA.3	Excavate and backfill for road sign supports	m3	1		
4	TA.8.4 PS.C.1/2/3/4/7	Supply and place Grade 20/19 concrete for road sign footings	m3	1		

TOTAL CARRIED TO SECTION 7 SUMMARY: ROAD SIGNS AND MARKINGS

R

PART TB ROAD MARKINGS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1	Retroreflective painted road lines 150mm wide (white), including setting out and premarking as directed by Engineer on Site	m	5		
2	TB.8.1.1	Retroreflective painted road lines 300mm wide (white), including setting out and premarking as directed by Engineer on Site	m	5		
3	TB.8.1.2	Retroreflective painted road Marking for lettering, symbols and traffic islands (white), including setting out lettering, symbols and traffic island markings as directed by Engineer on Site	m2	5		

TOTAL CARRIED TO SECTION 7 SUMMARY: ROAD SIGNS AND MARKINGS

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SUMMARY OF BILL OF QUANTITIES**Section**

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	_____	
DD	EARTHWORKS FOR STRUCTURES	R	_____	
EL	DUMPROCK SUBGRADE IMPROVEMENT	R	_____	
4	ROADWORKS		R	_____
EB	GRADED CRUSHED STONE	R	_____	
ED	ROAD ASPHALT	R	_____	
EF	KERBS AND HAUNCHES	R	_____	
5	PROTECTION WORKS		R	_____
F	PROTECTION WORKS	R	_____	
6	CONCRETE WORKS		R	_____
C	CONCRETE WORK	R	_____	
7	ROAD SIGNS AND MARKINGS		R	_____
TA	ROAD SIGNS	R	_____	
TB	ROAD MARKINGS	R	_____	
SUB TOTAL				R _____
ADD VAT (15%) - (only if a registered VAT Vendor)				R _____
TOTAL CARRIED TO FORM OF TENDER				R _____