

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	45000	1.00	45 000.00
		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 =%)	%	45000		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

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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		

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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		
16	PS.2.3	Service Relocations	PC Sum	100000	1.00	100 000.00

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
		<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

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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.12	Removal of asphalt driveways to tip as directed by Engineer on site.	m3	5		
3	B.8.14	Removal of existing asphalt speed humps to tip as directed by Engineer on site.	m3	5		
4	B.8.4 PS.B.3	Removal of trees of girth exceeding 0,250 m to tip as directed by Engineer on Site.	no.	1		
5	B.8.9 PS.B.4 PS.12	Removal of brickwork to tip as directed by Engineer on Site.	m3	2		
6	B.8.10 PS.B.5 PS.12	Removal of unreinforced concrete to tip as directed by Engineer on Site.	m3	5		
7	B.8.11 PS.B.5 PS.12	Removal of reinforced concrete to tip as directed by Engineer on Site.	m3	5		
8	PS.B.7	High Pressure Cleaning of concrete block road base.	m2	600		
9	PS.B.8	Application of weed killer on concrete block road base.	m2	600		

TOTAL CARRIED TO SECTION 2 SUMMARY: SITE CLEARANCE

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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	120		
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	25		
3	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	35		
4	DA.8.5 PS.DA.6	Compact imported G9 fill material to 93% Mod. A.A.S.H.T.O.	m3	35		
5	DA.8.9 PS.13 PS.DA.7/8	Formation	m2	240		
6	PS.DA.5 PS.13	Import and process suitable G7 material from contractor's off-site source inclusive of haulage and royalties	m3	35		
7	DA.8.5 PS.DA.6	Compact imported G7 material to 95% Mod. A.A.S.H.T.O.	m3	35		
8	DA.8.6	Trimming of embankments	m2	120		
9	DB.8.19	Proving of existing services by hand excavation (provisional), where depth is :- Over 0,0m and not exceeding 1,5m	m3	10		
10	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
11		Handling costs etc. in respect of Item 10. Tenderer to state % markup. (Markup =%)	%	15000		
12	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

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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	7		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

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<div><div><div>PART</div><div>EL</div><div>DUMPROCK SUBGRADE IMPROVEMENT</div></div></div>						
Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EL.8.1	Dumprock subgrade improvement	m3	35		
TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS					R	

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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	36		
2	EB.8.1 PS.EB.1	Graded crushed stone G5, 150mm thick compacted to 95% Mod.A.A.S.H.T.O	m3	36		
3	EB.8.2 PS.EB.2	Prime Coat @ 0,6litres/m2	m2	36		

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	65		
2	ED.8.1	Private Plant Asphalt Mix A to speed hump. Bitumen content % as per mix design entered at time of use.	t	2.5		
3	PS.ED.8	Saw Cut existing road edge	m	50		
4	ED.8.4	Tack Coat @ 0,3litres/m2	m2	700		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R**PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.EF.2	Supply and lay Fig.12 kerb edge restraint as detailed on Drawing No.49164.	m	120		
2	EF.8.1	Extra over Item1 for curves of radius less than 25 m	m	40		

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/Geolok 400 or approved equivalent earth retaining system blocks as detailed on Drawing No.49164 and as directed by Engineer on Site	m2	48		
4	PS.F.2 PS.F.5	Supply and install 50mm weepholes to earth retaining system as detailed on Drawing No.49164.	no.	40		
5	PS.DA.9	Supply and Install of Geofabric as detail on Drawing No. 49164.	m2	40		
6	PS.PG.2	Supply and Install of Subsoil drain as per Drawing No. 38575.	m	120		

TOTAL CARRIED TO SECTION 5 SUMMARY: PROTECTION WORKS

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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.49164 and as directed by Engineer on Site	m3	2		
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.49164.	m3	8		
3	PS.C.1/2/3/4/6	Supply and place Grade 20/26 concrete for cast insitu encasement to ducts as directed by Engineer on Site	m3	6		

TOTAL CARRIED TO SECTION 6 SUMMARY: CONCRETE WORKS**R**

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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	