

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****SECTION 4 ROADWORKS****PART EB GRADED CRUSHED STONE****PART ED ROAD ASPHALT****PART EF KERBS AND HAUNCHES****PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS****SECTION 5 PROTECTION WORKS****PART F PROTECTION WORKS****SECTION 6 CONCRETE WORKS****PART C CONCRETE WORK****SECTION 7 ROAD MARKINGS****PART TB ROAD MARKINGS**

FLOOD DAMAGE REMEDIATION WITHIN WARD 65

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 Allow for CLO to be appointed and monthly submission of proof of employment and payment for the CLO.	PC Sum	90000	1.00	90 000.00
6		Handling costs etc. in respect of item 5. Tenderer to state % markup (Markup=..... %)	%	90000		

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	Initial supply of all signs, barricades and delineators	sum	1		
5	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
6	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
7	PS.11	Preparation and submission of Materials 'As-Built' Report	sum	1		
8		Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
9	AB.6 GCC.23	Allow the following additional items which the tenderer required to be priced separately :-	sum	1		
10		a)	sum	1		

FLOOD DAMAGE REMEDIATION WITHIN WARD 65

Part Continued **PART** AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
11		b)	sum	1		
12		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 PS.AH.1	Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	sum	1		
2	AH.14.2 PS.10 PS.AH.1	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 PS.AH.1	Submission of the Health and Safety File	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: PRELIMINARY AND GENERAL

R

FLOOD DAMAGE REMEDIATION WITHIN WARD 65**SECTION 2 SITE CLEARANCE****PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2 PS.B.1	General clearance and grubbing in road reserve.	m2	515		
2	B.8.14 PS.B.5 PS.12	Removal of roadways to tip as directed by Engineer on Site.	m3	140		
3	B.8.16 PS.B.4 PS.12	Removal of damaged kerbs to spoil as directed by Engineer on Site.	m	50		
4	B.8.2 PS.B.6	Removal of sand bags to stockpile for reuse as directed by Engineer on Site.	no.	60		
5	B.8.15 PS.B.3 PS.12	Removal of asphalt sidewalk to tip as directed by Engineer on Site.	m3	1.5		
6	B.8.17 PS.B.2 PS.12	Removal of damaged speed hump to tip as directed by Engineer on Site.	m3	1.5		
7	B.8.14 PS.B.7 PS.12	Removal of damaged asphalt extruded haunch to spoil as directed by Engineer on Site.	m3	1.5		

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

FLOOD DAMAGE REMEDIATION WITHIN WARD 65**SECTION 3 EARTHWORKS****PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.1 PS.DA.3 PS.12	Excavate soft material to spoil.	m3	255		
2	DA.8.4 PS.DA.5 PS.13	Import and process suitable G7 material from contractor's off-site source inclusive of haulage and royalties.	m3	45		
3	DA.8.5 PS.DA.6 PS.13	Compact imported G7 material to 95% Mod. A.A.S.H.T.O.	m3	45		
4	DA.8.4 PS.DA.5 PS.13	Import and process suitable G9 material from contractor's off-site source inclusive of haulage and royalties.	m3	230		
5	DA.8.5 PS.DA.6 PS.13	Compact imported G9 material to 93% Mod. A.A.S.H.T.O.	m3	230		
6	DA.8.9 PS.DA.7/8 PS.13	Formation.	m2	230		
7	DA.8.19 PS.2	Proving of existing services by hand excavation, where depth is over 0,0m and not exceeding 1,5m.	m3	20		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

R

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2 PS.DD.1 PS.12 PS.DA.3/4	Excavate in all material for TB500/GEOLOK400 or approved equivalent retaining wall and wall base to spoil at tip and as directed by Engineer on Site.	m3	70		

TOTAL CARRIED TO SECTION 3 SUMMARY: EARTHWORKS

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FLOOD DAMAGE REMEDIATION WITHIN WARD 65**SECTION 4 ROADWORKS****PART EB GRADED CRUSHED STONE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EB.8.1 PS.EB.1 PS.13	Graded crushed stone G2, 150mm thick compacted to 98% Mod.A.A.S.H.T.O	m3	40		
2	EB.8.1 PS.EB.1 PS.13	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	275		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

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PART ED ROAD ASPHALT

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	ED.8.2 PS.ED1/2/3/4/ 5/6/7/8/9	Private Plant Asphalt Sa-S14. Bitumen content % as per mix design entered at time of use.	t	25		
2	AA.ED PS.ED.8	Saw Cut existing road edge	m	75		
3	ED.8.4	Tack Coat @ 0,3litres/m2	m2	280		
4	ED.8.2 PS.ED1/2/3/4/ 5/6/7/8/9	Construct new asphalt speed hump as directed by Engineer on Site.	no.	1		

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.3	Supply and lay Fig.6 Barrier kerb and 300mm concrete fillet as detailed on Drawing No.49204.	m	180		
2	EF.8.1 PS.EF.1	Supply and lay Fig.6 Mountable Kerb as detailed on Drawing No.49204.	m	30		
3	EF.8.1 PS.EF.4	Scoop kerb and channel (Type F-mountable) including transition kerb as per Standard Drawing No.38579.	m	20		
4	EF.8.1 PS.EF.2	Supply and lay Figure 12 edge restraint kerb as detailed on Drawing No.49204.	m	50		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R

PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EG.8.1 PS.EG.1/2	Asphalt sidewalk 25mm-Asphalt Private Plant	m2	60		

TOTAL CARRIED TO SECTION 4 SUMMARY: ROADWORKS

R

FLOOD DAMAGE REMEDIATION WITHIN WARD 65

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.7 PS.F.9	Supply and lay plantable interlocking TB500/GEOLOK400 or approved equivalent earth retaining system blocks as detailed on Drawing No.49204 and directed by Engineer on Site.	m2	100		
2	F.8.7 PS.F.4	Supply and install approved grade geofabric to earth retaining system as detailed on Drawing No.49204.	m2	150		
3	F.8.7 PS.F.2/5	Supply and install 50mm weepholes to retaining system as detailed on Drawing No.49204.	no.	15		
4	F.8.7 PS.F.9	Import, process and compact 150mm thick 19mm stone layer behind TB500/GEOLOK400 or approved equivalent earth retaining system blocks as detailed on Drawing No.49204.	m3	6		
5	F.8.7 PS.F.9	Supply and lay 110mm diameter perforated drainage pipe behind TB500/GEOLOK400 or approved equivalent earth retaining system as detailed on Drawing No.49204.	m	40		
6	F.8.7 PS.F.9	Import, process and compact 12:1 cement stabilised backfill behind TB500/GEOLOK400 or approved equivalent earth retaining system blocks to top of wall as detailed on Drawing No.49204.	m3	20		
7	F.8.1 PS.F.1	Import, process and compact topsoil: thickness 100mm.	m2	300		
8	F.8.3 PS.F.11	Supply and lay Grass Sodding as directed by Engineer on Site.	m2	300		

TOTAL CARRIED TO SECTION 5 SUMMARY: PROTECTION WORKS

R

FLOOD DAMAGE REMEDIATION WITHIN WARD 65

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

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PG.8.9 PS.C.1/2/3/4/5/ 6/7/8/9/10	Supply and place Grade 25/26 concrete for cast insitu Base Type B including Mesh Ref.245, and compaction of subgrade to 95% Mod.A.A.S.H.T.O as detailed on Drawing No.49204.	m3	5		
2	PG.8.9 PS.C.1/2/3/4/6/ 9/10	Supply and place Grade 15/19 concrete in and between top row blocks as detailed on Drawing No.49204 and as directed by Engineer on Site.	m2	2		

TOTAL CARRIED TO SECTION 6 SUMMARY: CONCRETE WORKS

R

FLOOD DAMAGE REMEDIATION WITHIN WARD 65**SECTION 7 ROAD MARKINGS****PART TB ROAD MARKINGS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	TB.8.1.1 PS.TB.1/2/3	Painted road lines 150mm wide (white), including setting out and premarking as directed by Engineer on Site.	m	35		
2	TB.8.1.1 PS.TB.1/2/3	Painted road lines 150mm wide (white), including setting out and premarking for new asphalt speed hump as directed by Engineer on Site.	m	55		

TOTAL CARRIED TO SECTION 7 SUMMARY: ROAD MARKINGS**R**

FLOOD DAMAGE REMEDIATION WITHIN WARD 65**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		
4	ROADWORKS		R	
EB	GRADED CRUSHED STONE	R		
ED	ROAD ASPHALT	R		
EF	KERBS AND HAUNCHES	R		
EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R		
5	PROTECTION WORKS		R	
F	PROTECTION WORKS	R		
6	CONCRETE WORKS		R	
C	CONCRETE WORK	R		
7	ROAD MARKINGS		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	