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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS,  
FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**BILL OF QUANTITIES**

**SECTION 1 SECTION 1: PRELIMINARIES AND GENERAL**

**PART AA PRELIMINARIES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>GENERAL CONDITIONS OF CONTRACT (GCC 2015) READ IN CONJUNCTION WITH THE CONTRACT DATA</u></b>				
1	GCC 2015	Fixed Charge obligations	sum	1		
2	GCC 2015	Time Related obligations	sum	1		
		<b><u>SANS 1921-1 : GENERAL ENGINEERING AND CONSTRUCTION WORKS READ IN CONJUNCTION WITH THE ASSOCIATED SPECIFICATION DATA IN THE SCOPE OF WORKS</u></b>				
3	SANS 1921-1	Fixed Charge Items	sum	1		
4	SANS 1921-1	Time Related Items	sum	1		
		<b><u>COMMUNITY LIAISON OFFICER</u></b>				
5	C.1.2.3.1	Allow for a CLO to be appointed	PC Sum	75000	1.00	75 000.00
6	C.1.2.3.1	Contractor's mark up on item 5	%	75000		

TOTAL CARRIED TO SECTION 1 SUMMARY: SECTION 1: PRELIMINARIES AND GENERAL

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**PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
		<b><u>FIXED CHARGES</u></b>				
1	AB.2 PS.AB.2	Offices for Engineer and Staff	sum	1		
2	AB.4 PS.12	Contractor's Camp Site / Store Yard	sum	1		
3	AB.5 PS.15	Notice Board (Refer to Notice Board drawing - Dwg No. 4137 E)	sum	1		
4	AB.7 PS.AB.7	Road Deviations	sum	1		
5	AB.7 PS.AB.7	Initial supply of all signs, barricades and delineators	sum	1		
6	PS.18	Allow for Progress Photographs (Provisional Sum)	sum	1		
7	PS.11.1	Survey for, and Preparation of, 'As-Built' Drawings	sum	1		
8	PS.11.3	Additional site survey that may be required by the Engineer	PC Sum	15000	1.00	15 000.00
9	PS.11.3	Contractor's mark up on item 8	%	15000		
10	PS.19	Site Security	sum	1		

**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

Part Continued **PART AB GENERAL SPECIFICATIONS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
<b><u>TIME RELATED CHARGES</u></b>						
11	AB.2 PS.AB.2.1	Offices for Engineer and Staff	sum	1		
12	AB.4 PS.AB.4.1	Contractor's Camp Site / Store Yard	sum	1		
13	AB.7 PS.AB.7	Maintenance of all signs, barricades and delineators	sum	1		
14	AB.7 PS.AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
15	PS.11.2	Setting out of the works	sum	1		
16	AB.6 PS.14	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
17	PS.AB.8	Temporary protection of existing services	PR Sum	100000	1.00	100 000.00
18	PS.9	Compliance with Environmental Management Plan	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: SECTION 1: PRELIMINARIES AND GENERAL

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**PART AH OCCUPATIONAL HEALTH and SAFETY**

Item	Clause	Description	Unit	Quantity	Rate	Amount
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: SECTION 1: PRELIMINARIES AND GENERAL

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SECTION 2 SECTION 2: SITE CLEARANCE**

**PART B SITE CLEARANCE**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2 PS.17	General clearance and grubbing	m2	930		
2	B 8.11	Removal of reinforced concrete. Rate to include all haulage and saw cut to tie into existing, if required	m3	5		
3	B 8.10	Removal of unreinforced concrete. Rate to include all haulage and saw cut to tie into existing, if required	m3	5		
4	B.8.5 PS.17	Removal of 1.2 - 2.4 m high fence and spoil at tip. Rate to include all haulage	m	50		
5	B.8.5 PS.17	Removal of 1.2 - 2.4 m high fence and store on site for re-use	m	50		
6	B.8.4 PS.17	Removal of trees of girth exceeding 0.0m up to including 1.0m. Rate to include all haulage	no.	5		

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

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS,  
FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SECTION 3 SECTION 3: CONCRETE WORK**

**PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1 PS.C.5	Grade 20/19 concrete to footpaths , dimensions, up to 1500mm wide x 100mm thick at 2.5m alternate panels and to V-Drains, 600mm wide x 100mm thick and to edge beams to road ends.	m3	49		
2	C.8.2	Welded mesh fabric reinforcement : SMF-REF 193 mesh with 50mm spacer blocks	kg	934		
3	C.8.3	Shuttering and formwork to cast-in-situ concrete including internal panel faces and end faces	m2	97		
4	EG.8.3	Expansion Joints with 10 mm bitumen impregnated softboard and polysulphide sealant.	m	194		
5	C.8.4	Grade 13/15 concrete blinding to uneven surfaces, as required on site	m3	40		

**TOTAL CARRIED TO SECTION 3 SUMMARY: SECTION 3: CONCRETE WORK**

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SECTION 4 SECTION 4: EARTHWORKS**

**PART DA EARTHWORKS : BULK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DA.8.2 PS.17	Excavate 100mm topsoil to stockpile	m3	13		
2	DA.8.3 PS.17	Excavate soft material and place directly into fill as directed by the Engineer on site	m3	60		
3	DA.8.3 PS.17	Extra over above for excavation in intermediate material to fill (for item 2 above)	m3	24		
4	DA.8.3 PS.17	Excavate soft material to spoil. Rate to include all haulage	m3	5		
5	DA.8.3 PS.17	Extra over above for excavation of rock material to spoil (for item 5 above). Rate to include all haulage	m3	150		
6	DA.8.3 PS.17	Excavate unsuitable material below embankments or formation and spoil at tip. Rate to include all haulage	m3	40		
7	DA.8.4	Import suitable fill material of G7 quality	m3	156		
8	DA.8.5	Compact imported fill material (G7) to 93% Mod A.A.S.H.T.O	m3	156		
9	PS.DA.12	Trimming of embankments	m2	528		
10	DA.8.9	Formation	m2	925		
11	PS.DA.8.11	Rip and recompact In-situ subgrade material to DN 3.7 - 5.7 density, TRH 14 Classification for G5	m3	138.6		

TOTAL CARRIED TO SECTION 4 SUMMARY: SECTION 4: EARTHWORKS

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**PART DB EARTHWORKS FOR PIPE TRENCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DB.8.19 PS.2.2	Prove existing services by hand excavation (provisional), excavate for reos and gabions : where depth is over 0.0 m and not exceeding 1.5m	m3	30		

TOTAL CARRIED TO SECTION 4 SUMMARY: SECTION 4: EARTHWORKS

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SECTION 5 SECTION 5: ROADWORKS**

**PART EF KERBS AND HAUNCHES**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	EF.8.1	Supply and lay Fig.6 barrier kerbs both sides, as shutter to new footpaths, as per Detail , to include 20mm 1:3 (1 cement : 3 riversand) mortar bedding and 10mm expansion joint every 10m	m	1090		
2	EF.8.1	Cast in-situ concrete Grade 20/19 for haunching - continuous	m3	11		

TOTAL CARRIED TO SECTION 5 SUMMARY: SECTION 5: ROADWORKS

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**PART EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	PS.13.2	Supply and lay pre-cast concrete 1m wide garden steps, including bedding and laying.	no.	498		
2	PS 13.2	Supply and lay pre-cast concrete "Bass" steps, complete including bedding and laying	no.	67		

TOTAL CARRIED TO SECTION 5 SUMMARY: SECTION 5: ROADWORKS

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SECTION 6 SECTION 6: PROTECTION WORKS**

**PART F PROTECTION WORKS**

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1 PS.17	Topsoiling from stockpile	m2	130		
2	F.8.3	Planting of vegetation to match existing	m2	528		
3	F.8.6	Install PVC coated reno mattress (No. 1 = 2m x 1m x 0.3m) As per typical details	no.	24		
4	F.8.8	Install new 1.2 - 2.4 m high fence to match existing	m	50		
5	F.8.8	Re-erect 1.2 - 2.4 m high fence using materials stored on site	m	20		
6	F.8.6	Install PVC coated Gabion boxes ( No. 1 = 2m x 1m x 1m) As per typical details	m3	24		
7	F.8.1	Topsoiling from commercial sources.	m2	398		
8	F.8.4	Stone pitching	m2	30		
9	DD.8.2	Excavation for footing to retaining wall	m3	10		
10	DA.8.5	Backfilling and compaction to 93% Mod A.A.S.H.T.O	m3	30		
11	C.8.1	Retaining wall concrete footing grade 20/19	m3	10		
12	PS.F.8	Interlocking earth retaining system / wall - Geolok 400 or similar approved	m2	50		
13	PS.13.2	Handrails, to include all fastners and washers and tools for fixing to post, complete, as per detail on Annexure C.3.6.2	m	90		
14	PS.13.2	Posts, to include excavation, plumbing and fixing with Grade 20/19 concrete, as per detail on Annexure C.3.6.2	no.	127		

**TOTAL CARRIED TO SECTION 6 SUMMARY: SECTION 6: PROTECTION WORKS**

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**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN PRICING DATA REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

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**SECTION 1 SECTION 1: PRELIMINARIES AND GENERAL**

PART AA	PRELIMINARIES	
PART AB	GENERAL SPECIFICATIONS	
PART AH	OCCUPATIONAL HEALTH and SAFETY	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 2    SECTION 2: SITE CLEARANCE**

PART B	SITE CLEARANCE	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 3 SECTION 3: CONCRETE WORK**

PART C	CONCRETE WORK	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 4 SECTION 4: EARTHWORKS**

PART DA	EARTHWORKS : BULK	
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TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 5 SECTION 5: ROADWORKS**

PART EF	KERBS AND HAUNCHES	
PART EG	SIDEWALKS, FOOTPATHS and MEDIAN AREAS	
TOTAL CARRIED TO FINAL SUMMARY		

**SECTION 6 SECTION 6: PROTECTION WORKS**

PART F	PROTECTION WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

**THE PROVISION OF INCREMENTAL SERVICES TO SETTLEMENTS WITHIN THE WESTERN REGION: ROADS, FOOTPATHS AND ASSOCIATED STORMWATER IN-CLERMONT CLUSTER (WARD 92)**

**SUMMARY OF BILL OF QUANTITIES**

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	AA PRELIMINARIES	R	_____	
	AB GENERAL SPECIFICATIONS	R	_____	
	AH OCCUPATIONAL HEALTH and SAFETY	R	_____	
2	SECTION 2: SITE CLEARANCE		R	_____
	B SITE CLEARANCE	R	_____	
3	SECTION 3: CONCRETE WORK		R	_____
	C CONCRETE WORK	R	_____	
4	SECTION 4: EARTHWORKS		R	_____
	DA EARTHWORKS : BULK	R	_____	
	DB EARTHWORKS FOR PIPE TRENCHES	R	_____	
5	SECTION 5: ROADSWORKS		R	_____
	EF KERBS AND HAUNCHES	R	_____	
	EG SIDEWALKS, FOOTPATHS and MEDIAN AREAS	R	_____	
6	SECTION 6: PROTECTION WORKS		R	_____
	F PROTECTION WORKS	R	_____	
SUB TOTAL			R	_____
ADD VAT (15%) - (only if a registered VAT Vendor)			R	_____
TOTAL CARRIED TO FORM OF TENDER			R	_____