

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 Bridgeworks****PART B SITE CLEARANCE****PART C CONCRETE WORK****PART DD EARTHWORKS FOR STRUCTURES****PART F PROTECTION WORKS**

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		
		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	163200	1.00	163,200.00
		Allow for a CLO to be appointed.				
6	PS.12	LOCAL LABOUR	sum	1		
		Allow for the weekly submission of proof of employment of local labour				
7		Contractor fixed obligations	sum	1		
8		Site Meetings with Project Steering Committee	PC Sum	0	1.00	0.00
9		Handling fee for above item	%	0		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General**R**

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	AB.2	FIXED CHARGES	sum	1		
		Offices for Engineer and Staff NOT REQUIRED				
2	PS.AB.1.2	Contractor's Camp Site / Store Yard	sum	1		
3	AB.5	Notice Board	sum	1		
4	AB.7	Road Deviations	sum	1		
5	AB.7	Initial supply of all signs, barricades and delineators	sum	1		
6		Survey coordination of existing valves, manholes, catchpits, and cable duct markers	sum	1		
7		Allow for the following Additional Items which the tenderer requires to be priced separately :-	sum	1		
		a)				
8		b)	sum	1		
9		c)	sum	1		
10	AB.6	Cost of Samples and Contractor's Preliminary and Site Control Testing	sum	1		
11	AB.7	Maintenance of Pedestrian and Traffic Facilities	sum	1		
12	AB.7	Maintenance of all signs, barricades and delineators	sum	1		
13		Allow the following additional items which the tenderer required to be priced separately :-	sum	1		
		a)				
14		b)	sum	1		
15		c)	sum	1		
16		Maintenance of Pedestrian and Traffic Facilities	sum	1		
17		Allow for Progress Photographs (Provisional Sum)	PC Sum	1	1.00	1.00
18		Provision of Site Security	sum	1		
19		Insurance of Work	sum	1		
20		Appointment of Environmental Officer	PC Sum	80000	1.00	80,000.00
21		Handling fee for above item	%	80000		
22		Provide toilet facilities	sum	1		

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

Part Continued PART AB GENERAL SPECIFICATIONS

Item	Clause	Description	Unit	Quantity	Rate	Amount
23		Empowerment Initiative Programme - In-service/Experience Training	PC Sum	150000	1.00	150,000.00
24		Handling fee for above item	%	150000		
25		Rain gauge	sum	1		
26		First aid Kit	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General R

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

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	sum	1		

TOTAL CARRIED TO SECTION 1 SUMMARY: Preliminary and General R

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

SECTION 2 Bridgeworks

PART B SITE CLEARANCE

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	B.8.2 & PS.B.1	General clearance and grubbing in river bed and track	m2	788		

TOTAL CARRIED TO SECTION 2 SUMMARY: Bridgeworks R

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

PART C CONCRETE WORK

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	C.8.1	Grade 15/19 concrete in soft spots (provisional)	m3	24		
2	C.8.1 & PS.C.9	Grade 15/19 concrete blinding of thickness 50 mm	m2	45		
3	C.8.1 & PS.C.8	Grade 30/19 concrete in footings	m3	18		
4		Supply and install Y32 rock anchors to footings in 50 dia holes drilled 3m into sound rock	no.	3		
5		(Provisional Sum) : Alternative foundation measures if site conditions do not favour item 4 above	PR Sum	100000	1.00	100,000.00
6	C.8.3	Class 1 shuttering to footings	m2	29		
7	C.8.1 & PS.C.10	Grade 30/19 concrete in abutment walls and pier	m3	34		
8	C.8.3	Class 1 shuttering to back of abutment walls	m2	39		
9	C.8.3	Class 3a shuttering to front and sides of abutment walls and pier	m2	57		
10	C.8.1 & PS.C.11	Grade 30/19 concrete in bridge superstructure	m3	47		
11	C.8.3 & PS.C.3	Class 3a shuttering to soffit of bridge superstructure	m2	93.6		
12	C.8.3 & PS.C.3	Class 3a shuttering to vertical and sloping sides of bridge superstructure	m2	195		
13	PS.C.1 & C.8.3	High tensile steel reinforcement	t	11		
14	PS.C.1 & C.8.3	Mild steel reinforcement	t	1		
15	C.8.1 & PS.C.4	Grade 20/19 concrete in footpath slabs	m3	20		
16	C.8.3	Class 1 shuttering to footpath slabs	m2	21		
17	C.8.2	High tensile steel fabric reinforcement ref : 193	t	0.4		
18	PS.C.14	65 mm ø perforated drainage pipes wrapped in Geotextile placed on a 200 mm x 75 mm concrete screed.(as per drawing detail)	m	6		
19	PS.C.15	Construct 50mm dia. P.V.C weepholes inclusive of filter elements, temporary plugs to abutment walls (as per drawing detail)	no.	6		
20	PS.C.15	Build in 75mm dia P.V.C stormwater drainholes pipes into position.	no.	12		
21	PS.C.20	Installation of Bridge Number	sum	1		

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

Part Continued **PART C CONCRETE WORK**

Item	Clause	Description	Unit	Quantity	Rate	Amount
22		Survey and Setting Out for positioning of all abutments and pier footing including all checks required by an Engineer on existing structure	sum	1		
23	PS.C.23	Cleaning and preparation of concrete surface (high water jetting with a final finish of class 3)	m2	188		
24	PS.C.23	Application of protective coatings and treatment (fairing coat)	m2	188		
25		On site monitoring and supply of written product performance guarantee	sum	1		
26	PS.C.22	Temporary Crossing: Supply and installation of pedestrian bridge structure to gabion abutment as per drawing number 44822 Sheet 1	sum	1		
27	PS.C.21	Block paving for footpath approach adjacent to how long park (2m wide)	m2	30		
28		Access/movable Scaffolding (<10m) for bridge finish	sum	1		
29	PS.C.3	Professional Design for falsework for deck	sum	1		
30		Supply and Installation Street lighting Pole Mounting Height 9.2M Total Hot Dip Galv.	no.	2		

TOTAL CARRIED TO SECTION 2 SUMMARY: Bridgeworks

R

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

PART DD EARTHWORKS FOR STRUCTURES

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	DD.8.2 & PS.DD.1	Excavate in all material for footings to stockpile	m3	88		
2	DD.8.2	Extra over item 1 for hard material	m3	10		
3	DD.8.3	Backfill and compact using material from stockpile	m3	88		
4	DD.8.3	Backfill and compact using imported material from contractor's own source. Rate to include all haulage and royalties	m3	400		
5	PS.DD.2	Design, installation and removal of cofferdamming and lateral support to the foundation excavations	sum	1		
6	PS.DD.8	Design, installation and removal of causeway/temporary working platform through the river for construction	sum	1		
7	DD.8.3	Backfill and compact using imported dumprock material from contractor's own source for ground improvement. Rate to include all haulage and royalties	m3	24		

TOTAL CARRIED TO SECTION 2 SUMMARY: Bridgeworks**R**

THE CONSTRUCTION OF HOW LONG PARK PEDESTRIAN BRIDGE, UMLAZI U, WARD 86

PART F PROTECTION WORKS

Item	Clause	Description	Unit	Quantity	Rate	Amount
1	F.8.1 & PS.F.1 PS.F.1	Topsoiling and grassing as specified in the Environmental Management Plan	m2	400		
2	F.8.6 & PS.F.3 PS.F.7	Gabion boxes : 2000x1000x1000 mm depth	m3	120		
3	F.8.6 & PS.F.3 PS.F.7	Gabion boxes : 1500x1000x1000 mm depth	m3	30		
4	F.8.6 & PS.F.3 PS.F.7	Gabion boxes : 1000x1000x1000 mm depth	m3	48		
5	PS.F.3	Supply and install approved geofabric to underside and back of Gabion walls	m2	250		
6	PS.C.5	Supply and install polycrrete handrail system	m	36		
7	PS.F.3	Supply and install Reno Matresses	m3	20		
8		Surface preparation for bedding gabions	m2	0		

TOTAL CARRIED TO SECTION 2 SUMMARY: Bridgeworks**R**

BILL OF QUANTITIES SECTION SUMMARY

SECTION 1 Preliminary and General

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

BILL OF QUANTITIES SECTION SUMMARY

SECTION 2 Bridgeworks

PART B	SITE CLEARANCE	
PART C	CONCRETE WORK	
PART DD	EARTHWORKS FOR STRUCTURES	
PART F	PROTECTION WORKS	
TOTAL CARRIED TO FINAL SUMMARY		

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	Bridgeworks		R	
B	SITE CLEARANCE	R		
C	CONCRETE WORK	R		
DD	EARTHWORKS FOR STRUCTURES	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