

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 1200

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
<b>B12.02</b>	Relocation and protection of existing services (Water line):	Prov. Sum	1	R 2,500.00	R 2,500.00
	(a) Handling cost and profit	%	R 2,500.00		
<b>B12.03</b>	Provision of community Liasion Officer	Prov. Sum	1	R 18,000.00	R 18,000.00
	(a) Handling cost and profit	%	R 18,000.00		
	(b) PSC Sitting allowance	Prov. Sum	1	R 6,750.00	R 6,750.00
	(c) Handling cost and profit	%	R 6,750.00		
<b>B12.04</b>	Environmental compliance control and supervision	Prov. Sum	1	R 30,000.00	R 30,000.00
	Handling cost and profit	%	R 30,000.00		
<b>B12.06</b>	Engineers Instruction.	Prov.Sum	1	R 100,000.00	R 100,000.00
	Handling cost and profit	%	R 100,000.00		
<b>1200</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 1300

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u></b>				
<b>B13.01</b>	<b>The Contractor's general obligations:</b>				
	(a) Fixed obligations	Sum	1		
	(b) Value-related obligations	Sum	1		
	(c) Time-related obligations	month	2		
<b>B13.02</b>	<b>Occupational Health and safety:</b>				
	(a) Contractor's initial obligations in respect to the Occupational Health and Safety Act and Construction Regulations, Including Covid19 regulations	Sum	1		
	(b) Contractor's time related obligations in respect to the Occupational Health and Safety Act and Construction Regulations, Including Covid19 regulations	month	2		
	(c) Provision of full time Construction Safety Officer	month	2		
	(d) Provision of personal protection equipment and clothing	Prov.Sum	1	R 20,000.00	R 20,000.00
	(e) Provisional sum for OH&S Consultant during construction	Prov. Sum	1	R 20,000.00	R 20,000.00
	(f) Handling cost and profit sub item B13.02(e )	%	R 40,000.00		
<b>B13.04</b>	<b>Socio-Economic Obligations</b>				
	(a) Life Training	Prov. Sum	1	R 15,000.00	R 15,000.00
	(b) Technical Training	Prov. Sum	1	R 15,000.00	R 15,000.00
<b>B12.07</b>	<b>Provision of student In-service training</b>				
	Provision of student In-service training	month	2	R 4,500.00	R 9,000.00
<b>1300</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 1400

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u></b>				
<b>B14.01</b>	<b>Office and laboratory accommodation:</b>				
	(a) Offices (interior floor space only)	month	2		
<b>14.02</b>	<b>Office and laboratory furniture:</b>				
	(a) Chairs	No.	10		
	(b) Desks, complete with drawers and locks	No.	1		
	(c) Drawing tables	No.	1		
	(d) Conference table for meetings	No.	1		
	(e) Fire extinguishers, 9,0 kg all purpose dry powder type, complete, mounted on wall with brackets	No.	1		
	(f) General-purpose steel cupboards with shelves	No.	1		
<b>B14.03</b>	<b>Office and laboratory fittings, installations and equipment:</b>				
	(a) The provision of a direct independent cellphone line for the Engineer, including the cost of calls and Data in connection with contract administration	PC Sum	1	R 17,500.00	R 17,500.00
	(b) Handling costs and profit in respect of subsubitem 14.03(a) above	%	17,500.00		
	(c) Name boards as specified	No.	1		
<b>1400</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10****SECTION 1500**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>B15.01</b>	<b>ACCOMMODATION OF TRAFFIC</b> <b>Accommodating traffic and maintaining temporary deviations</b>	L Sum	1		
<b>B15.02</b>	<b>Provision of Traffic safety equipment for use by the Engineer</b>				
	(a) Amber rotating lights, safety jackets, boots, magnetic signs etc.	Prov Sum	1.00		
	(b) Handling costs and profit in respect of subsubitem B15.2(a)	%			
<b>1500</b>	<b>TOTAL CARRIED TO SUMMARY</b>				<b>R -</b>

GABELANA EROSION PROTECTIO

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10**

SECTION 1600

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
16.02	<u>OVERHAUL</u> Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m <sup>3</sup> -km	150.00		
1600	TOTAL CARRIED TO SUMMARY				

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 1700

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B17.02	<u>CLEARING AND GRUBBING</u> Removal & Disposal of existing Concrete Culvert Structure	ha	1		
1700	TOTAL CARRIED TO SUMMARY				R -

**SCHEDULE OF QUANTITIES**

**GABELANA EROSION PROTECTION IN WARD 10**

**SECTION 2200**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2200	<p><b><u>PREFABRICATED CULVERTS</u></b>                      Excavation  <b>(a) Excavating soft material situated within the following</b>  <b>(i) 0 m up to 1.5 m</b>                      (ii) Exceeding 1,5 m and up to 3,0 m                      (b) Extra over subitem 22.01(a) for excavation in hard material,                      Backfilling:                      (a) Using the excavated material                      (b) Using imported selected material                      c) Extra over subitem 22,02(a) and (b) for soil cement backfilling                      (d) Rockfill underneath the culvert base                      Concrete portal culverts:                      (a) On class B bedding                      (i) 900 mm                      Headwalls as per drawing                      To suit a 900mm diameter inlet and outlet pipe complete (slab                      Hand excavation to determine the positions of existing services</p>	<p>m<sup>3</sup>                      m<sup>3</sup>                      m<sup>3</sup>                      m<sup>3</sup>                      m<sup>3</sup>                      m<sup>3</sup>                      m                      no                      m<sup>3</sup></p>	<p>50.00                      10.00                      10.00                      15.00                      10.00                      15.00                      2.00                      5.00</p>		
	TOTAL CARRIED TO SUMMARY				

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 3300

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b><u>MASS EARTHWORKS</u></b>				
<b>33.01</b>	<b>Cut and borrow to fill, including free-haul up to 0.5 km:</b>				
	(a) In-situ gravel material compacted layer thickness of 200 mm and less:				
	(i) Compacted to 93% of modified AASHTO density	m <sup>3</sup>	600.00		
<b>33.04</b>	<b>Cut to spoil, including free-haul up to 0,5 km. Material obtained from:</b>				
	(a) Soft excavation	m <sup>3</sup>	20.00		
	(b) Intermediate excavation	m <sup>3</sup>	15.00		
	(c) Hard excavation	m <sup>3</sup>	15.00		
	(d) Boulder excavation class A	m <sup>3</sup>	15.00		
<b>33.10</b>	<b>Roadbed preparation and the compaction of material:</b>				
	(b) Compaction to 93% of modified AASHTO density	m <sup>3</sup>	20.00		
<b>3300</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10****SECTION 3400**

<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>B34.01</b>	<b><u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u></b> <b>Pavement layers constructed from gravel taken from cut or borrow including free-haul up to 1,0 km:</b>				
	(c) Gravel subbase (unstabilized gravel) compacted to:				
	(i) 95% of modified AASHTO density for a (G7 material, 150 mm compacted layer thickness)	m <sup>3</sup>	15		
	(h) Gravel wearing course compacted to :				
	(ii) 98% of modified AASHTO density (G6 material, 150mm compacted layer)	m <sup>3</sup>	15		
<b>3400</b>	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10****SECTION 3400**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5100	<b>PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION</b>				
51.01	<b>Stone pitching:</b> Grouted stone pitching on a concrete bed (total thickness indicated)	m <sup>2</sup>	220		
3400	<b>TOTAL CARRIED TO SUMMARY</b>				

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10****SECTION 3400**

ITEM NO		DESTRICPTION				
Section	<b>5200</b>	<b>GABIONS</b>				
Header2	52.01	Foundation trench excavation and backfilling:				
Item	(b)	In all other classes of materials	m <sup>3</sup>	82.5		
Item	(c)	Supply and install boulders for foundation preparations.	m <sup>2</sup>	82.5		
Header2	52.02	Surface preparation for bedding the gabions	m <sup>2</sup>	0		
Header2	52.03	Gabions:				
Item	(a)	Galvanized gabion boxes (dimensions of box, nominal diameter of mesh wire and mesh size indicated)	m <sup>3</sup>			
Item	(b)	PVC-coated gabion boxes (dimensions of box, nominal diameter of mesh wire and mesh size indicated)	m <sup>3</sup>			
Item	(c)	Galvanized gabion mattresses (dimensions of mattress, mesh size, nominal diameter of mesh wire and diaphragm spacing indicated)	m <sup>3</sup>	110		
Item	(d)	PVC-coated gabion mattresses (dimensions of mattress, mesh size, nominal diameter of mesh wire and diaphragm spacing indicated)	m <sup>3</sup>			
Item	52.05	Filter fabric (type and grade indicated)	m <sup>2</sup>	82.5		
<b>TOTAL CARRIED TO SUMMARY</b>						

**SCHEDULE OF QUANTITIES**

**GABELANA EROSION PROTECTION IN WARD 10**

**SECTION 5600**

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<p><b>56.01</b></p>	<p><b><u>ROAD SIGNS</u></b>                      Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class I retro-reflective material, where the sign board is constructed from:</p> <p><b>(a) Prepainted galvanised steel plate (1.2mm chromadek or approved equivalent)</b></p> <p><b>(b) Timber</b></p> <p>( i ) 75mm diameter</p> <p>( ii ) 100mm diameter</p>	<p>Prov .Sum</p>	<p>1</p>		
<p>56.05</p>	<p><b>Excavation and backfilling for road sign supports:</b></p> <p>(a) Excavation for sign supports</p>	<p>m<sup>3</sup></p>	<p>2</p>		
<p>56.06</p>	<p><b>Extra over item 56.05 for cement treated backfill:</b></p> <p>(b) With soilcrete</p>	<p>m<sup>3</sup></p>	<p>2</p>		
<p><b>5600</b></p>	<p><b>TOTAL CARRIED TO SUMMARY</b></p>				

**SCHEDULE OF QUANTITIES**

GABELANA EROSION PROTECTION IN WARD 10

SECTION 7100

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7100	<b><u>CONCRETE PAVEMENTS.</u></b>				
71.01	Reinforced Concrete Pavement 19/25Mpa thick concrete	m <sup>3</sup>	10		
8100	TOTAL CARRIED TO SUMMARY				R -

**SCHEDULE OF QUANTITIES****GABELANA EROSION PROTECTION IN WARD 10****SECTION 8100**

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
B81.02	<b><u>TESTING MATERIALS AND WORKMANSHIP</u></b> Other special tests requested by the Engineer: (a) Cost of testing	PC	1	R 100,000.00	R 100,000.00
8100	<b>TOTAL CARRIED TO SUMMARY</b>				R <b>100,000.00</b>

**TENDER FOR CIVIL ENGINEERING WORKS  
GABELANA EROSION PROTECTION IN WARD 10  
BID NUMBER.: BID NO: PSJLM-ENG-2022/23 - 19**

SECTION	DESCRIPTION	SUMMARY
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTORS ESTABLISHMENT ON-SITE & GENERAL OBLIGATIONS	
1400	HOUSING, OFFICES & LABORATORIES FOR THE ENGINEERS PERSONNEL	
1500	ACCOMODATION OF TRAFFIC	
1600	OVERHAUL	
2200	PREFABRICATED CULVERTS	
1700	CLEARING & GRUBBING	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
5100	PITCHING, STONEMWORK AND PROTECTION AGAINST EROSION	
5200	GABIONS	
5600	ROAD SIGNS	
7100	CONCRETE PAVEMENTS	
8100	TESTING MATERIAL & WORKMANSHIP	
	<b>SUBTOTAL 1</b>	
	<b>SUBTOTAL 2</b>	
	VAT @15%	
	<b>TOTAL</b>	

SUMMARY