

**CONSTRUCTION OF A PLATFORM AND RAMP AT DANDORA DUMP SITE**  
**BILLS OF QUANTITIES(All Provisionals)**

Item	Description	Unit	Quantit	Rate (KShs.)	Amount (KShs.)
	<b><u>BILL NO. 1 - PRELIMINARIES</u></b>				
1.01	Provide for all Insurance to cover both the contract and maintenance periods to be jointly cover both the contractor and Nairobi City County at 10% Contract Value	Item			
1.02	Provide and erect publicity sign boards as directed and in accordance with the drawings	No.	2		
1.03	Allow a provisional sum of Kenya shillings One Hundred Thousands (KShs.100,000/-) for relocation and maintenance of utility services	Item	1	100,000.00	100,000.00
1.04	Attendance to Item 1.03 above	%			
	<b>Total Carried Forward to Summary Sheet.</b>				

Item	Description	Unit	Quantit	Rate (KShs.)	Amount (KShs.)
	<b>BILL NO.7 EXCAVATIONS AND FILLING FOR STRUCTURES</b>				
7.01	Mass excavation for foundations depth not exceeding 2.0m from ground level	CM	1,400		
7.02	Level bottoms of excavations	SM	700		
	<b>SUB-TOTAL CARRIED TO SUMMARY SHEET</b>				
	<b>BILL NO. 12 - QUARRY FILL STONE FOR SUB-BASE AND QUARRY CHIPS FOR BASE</b>				
12.01	Provide, deliver, place and compact approved quarry fill (hard core) to refusal densities to excavated area to a consolidated thickness of not more than 300mm as directed by the Engineer	m3	1,800		
12.02	Allow for the re-use of stored fill materials back to the excavated area and compact to the satisfaction of the Engineer.	m3	200		
12.03	Prepare surface provide place, hand pack and compact quarry chips (natural blue stone) to refusal densities as directed by the Engineer. Rate to include provision of quarry dust to be swept into the voids and watering the same to the satisfaction of the Engineer.	m3	300		
	<b>SUB-TOTAL CARRIED TO SUMMARY SHEET</b>				
	<b>BILL NO. 16 - BITUMINEOUS MIX BASES, BINDER COURSES AND WEARING COURSES</b>				
16.01	Provide and apply to base MC30 as prime coat at a rate of 0.8 - 1.2 litres per square metre to area of carriageway and walkway as directed by the Engineer. The rate to include preparation of surface to get rid of the foreign material by way of sweeping or blowing off or any method and carting way to spoil waste materials.	litres	480		
16.02	Provide, transport, lay and compact Asphaltic Concrete Binder course type 1 to a consolidated thickness of 50mm as directed by the Engineer Rate to include cleaning of the carriageway to get rid of the foreign material by way of sweeping or blowing off or any method and carting away to spoil waste materials.	m3	20		
16.03	Ditto item 16.02above but to a consolidated thickness of 35mm wearing course as directed by the Engineer. Rate to include cleaning of the carriageway to rid of the foreign material by way of sweeping or blowing off or any method and carting way to spoil waste materials. Also included is the provision and spraying of KI-60 bitumen emulsion as tack coat at rate of 0.5 to 0.8 lt/m2	m3	50		
16.04	Provide, transport, lay and compact 25mm 0/10 asphaltic concrete wearing course to walkways. Rate to include cleaning of the carriageway to rid of the foreign material by way of sweeping or blowing off or any method and carting way to spoil waste materials. Also included is the provision and spraying of KI-60 bitumen emulsion as tack coatat a rate of 0.5 to 0.8 lt/m2	m3	30		
	<b>SUB-TOTAL CARRIED TO SUMMARY SHEET</b>				
	<b>BILL NO.17 CONCRETE WORKS</b>				
17.01	50mm thick 1:4:8 Mix concrete blinding	CM	40		
	1: 11/2:3mix vibrated reinforced concrete to:				
	(i) Bases	CM	4		
	(ii)Columns	CM	20		
	(iii) Ramp	CM	90		
	(iv) Drainage Channel	CM	90		
	(v) Retaining wall	CM	10		

	<b>Reinforcements</b>				
17.02	Supply cut and bend the following reinforcement bars including binding wires and spacer blocks in position to:-				
	<b>(I) Bases</b>				
	(b)Y 12 diameter bars	Kg	300		
	(c)Y16 diameter bars	Kg	600		
	<b>(II)Columns</b>				
	(a) Y 8 bars	Kg	200		
	(b) Y 16 bars	Kg	700		
	<b>(III)Ramp</b>				
	(a) Y 10 bars	Kg	400		
	<b>(IV)Retaining Walls</b>				
	(a)Y10	Kg	300		
	(b) Y12	Kg	400		
	<b>(V) Drainage Channel</b>				
	(a) Y 10	Kg	2000		
	(b) Y12	Kg	7110		
	<b>(VI) Edge beam</b>				
	(a) Y 12	Kg	417		
	<b>FORMWORK</b>				
17.03	Sawn formwork to sides of foundations	SM	200		
17.04	Sawn formwork of sides of Columns	SM	10		
17.05	Sawn formwork to sides of Ramp	SM	50		
17.06	Sawn formwork to sides and soffits Drainage Channel	SM	3000		
	<b>SUB-TOTAL CARRIED TO SUMMARY SHEET</b>				
	<b>BILL NO 21 MISCELLANEOUS BRIDGE WORKS</b>				
21.01	Provide 100mm diameter weep holes on the wingwalls and abutments at intervals of 1.5m horizontally and 1m vertically.	NO	200		
	<b>SUB-TOTAL CARRIED TO SUMMARY SHEET</b>				

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SUMMARY OF BILLS OF QUANTITIES		
BILL NO.	DESCRIPTION	AMOUNT (KSHS.)
1	GENERAL	
7	EXCAVATION AND FILLING FOR STRUCTURES	
12	QUARRY FILL STONE FOR SUB-BASE AND QUARRY CHIPS FOR BASE	
16	BITUMINEOUS MIX BASES,BINDER COURSES AND WEARING COURSES	
17	CONCRETE WORKS	
21	MISCELLANEOUS BRIDGE WORKS	
	<b>SUB - TOTAL</b>	
	<b>ADD 5% FOR CONTINGENCIES</b>	
	<b>SUB - TOTAL</b>	
	<b>ADD 16% VAT</b>	
	<b>TOTAL</b>	