

BILL NO. 17: CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	Note: No separate payments shall be made for hauling of materials and the cost of such shall be included in the rates.				
	Structural Concrete				
17.01	Provide, haul all materials, prepare, handle, mix, place, compact to class UF1 finishing and cure as per drawings, specifications and directed by the Engineer.				
	a) Concrete Class 30/20 for substructure	m ³	71,642		
	b) Concrete Class 40/20 for superstructure	m ³	2,900		
	Precast Prestressed Concrete Girders				
17.02	Supply materials, prepare, handle, mix, place, compact to specified class of finishing and cure precast prestressed concrete girders and miscellaneous precast components; supply and installation of all embedded materials; handling, storage and protection of completed girders in the contractor's storage yard; loading, transportation, unloading and erection by beam launching method including design, supply, delivery, installation and removal of beam launching system, bracing, longitudinal ties, supports, falsework and other temporary works for the girders as per the drawings, specifications and as directed by the Engineer.				
	a) Precast Prestressed Concrete Girders TYPE VI				
	i) 33.6m long concrete Class 60/20 approx 29m ³ , 4.3 tons rebars, total weight approximately 74 tons	No.	70		
	ii) 38.9m long concrete Class 60/20 approx 33.5m ³ , 5.0 tons rebars, total weight approximately 86 tons	No.	110		
	Blinding Concrete				
17.03	Provide, haul all materials, prepare, handle, mix, place, compact to class UF1 finishing and cure concrete class 15/20	m ³	3,289		
17.04	Unformed Surface Finishes				
	Substructure				
	a) Unformed surface finish - Class UF2	m ²	6,641		
	b) Unformed surface finish - Class UF3	m ²	41,338		
	Superstructure				
	c) Unformed surface finish - Class UF3	m ²	12,895		
	Formwork for formed surface finishes				
17.05	Supply, erect and dismantle formwork for concrete of the following classes. The rates shall cover inclined formwork of all slopes, radii and angles.				
	Substructure				
	a) Class F3 finish - vertical	m ²	59,585		
	b) Class F2 finish - sloping	m ²	42,864		
	Superstructure				
	g) Class F3 finish - vertical	m ²	4,714		
	i) Class F3 finish - horizontal	m ²	16,080		
	Total carried forward to next page				

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
	B/F from previous page			B/F	
	Reinforcement				
17.06	Provide, cut, shape and place high yield strength, high bond strength reinforcement bars as per drawings, specifications and directed by the Engineer.				
	a) Grade B500B, diameter equal or less than 16 mm.	tonnes	1,241		
	b) Grade B500B, diameter greater than 16 mm.	tonnes	6,803		
	Water stops				
17.07	Provide, install and joint water stops including application of any sealant required at the face of the concrete, placing and compacting concrete around water stops.	m	120		
Total for Bill 17 forwarded to Summary Page					