

Bill of Quantities					
Summary of Bill of Quantities					
Road name: Weba road			Bill #1 : Summary of works.		
Project name: Grading and gravelling of roads			Surface Type: Stone Base		
Road Length: 600m					
Original BOQ					
ITEM No.	DESCRIPTION		Qty	RATE (K)	AMOUNT (K)
1	Preliminary, general items and consultants's disbursement				
2	Mass Earth Works				
3	Drainage excavation and auxillary structures				
TOTAL					
1	Original Grand Total VAT excl				
2	10% contingency	%		10.0%	
3	Value added tax	%		16%	
Grand Total					

### Bill of Quantities

Road name:Weba road			Bill #2 : Other works		
Project name: Grading and gravelling of roads			Surface Type: Stone Base		
Road Length: 600m					
ITEM No.	DESCRIPTION	UNIT	Qty	RATE (K)	AMOUNT (K)
1100	Note: the value of preliminaies and general iteams shall not exceed 5% of the measured works of the project <b>PRILIMINARY AND GENERAL ITEMS</b>				
11.01	<b>SITE MOBILIZATION</b>				
	the contractor shall set up set working areas and storage as may be demed necessary including all required site mobilization activities not mentioned below	item	1		
11.02	<b>TEMPORARY TRAFFIC CONTROL FACILITIES</b>				
	Traffic shall be maintained at all times by means of deviations. This bill allows for the provision of signs and traffic flagmen, lighting, etc. to allow for safe movement of traffic through the deviations both at night and during day time. (i) Accommodating traffic and maintaining temporary deviations in the built up areas	iteam	1		
1300	<b>SUPERVISION AND MANAGEMENT</b>				
	Site meetings , Work supervision and Management General Expenses including Telephone, Admin, Allowance for Clerk of works, etc.	month	1		
1400	<b>GENERAL PROJECT RELATED DISBURSEMENTS</b>				
	(i) Materials testing and control as directed by the Project Eng	Ls	1		
1500	<b>DEMOBILIZATION AND HANDOVER</b>				
	the contractor shall upon completion of the works remove all euipment ,tools and remaing materials and clean the site as may be approved by the project Eng.	item	1		
	Sub Total to Summary				

Bill of Quantities					
Road name:Weba road			Bill #3 : Drainage and auxiliary structures		
Project name: Grading and gravelling of roads			Surface Type: Stone Base		
Road Length: 600m					
ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE (K)	AMOUNT (K)
C	DRAINAGE AND AUXILARY STRUCTURES				
21.01	EXCAVATION FOR OPEN DRAINAGE CHANNELS				
	(a) Excavating soft material situated within the following depth ranges below the surface level:				
	(i) 0m up to 500mm	m <sup>3</sup>	600		
	(b) Extra over subitem 21.01(a) for excavation in hard material, irrespective of depth	m <sup>3</sup>	60		
21.02	DEMOLITION (Removal of unsuitable material including free-haul of 10Km )				
	(a) In layer thickness of 200mm or less	m <sup>3</sup>	0		
	(i) Stable material (Provisional)	m <sup>3</sup>			
21.03	CLEANING OF EXISTING OPEN AND SUB SURFACE DRAINAGES				
	(a) Clearing and de-silting existing open drains (0-50m long/ measured)	m <sup>3</sup>	0		
	(b) Clearing and de-silting existing subsurface drainage pipes 600-900mm in diameter, (0-50m long/ measured)	m	0		
21.04	BACKFILLING				
	(a) using the excavated material	m <sup>3</sup>	0		
	(b) using the imported selected material (well graded laterite)	m <sup>3</sup>	0		
2200	PRE-FABRICATED CULVERTS				
	Installation of new Pipe Culverts with the following sizes including Floor Slabs , Headwalls and Wingwalls, conforce 257: on class 20/19 bedding (7.2m in length) as detailed on Eng. drawing				
	(ii) 600mm diameter pipes	m	49.876374		
	(iii)900mm diameter pipes	m			

<b>2300</b>	<b>CAST INSITU</b>				
23.01	<b>PORTAL RECTANGULAR CULVERTS</b>				
	Cast in situ concrete and formwork to culvert headwalls and wingwalls and aprons, class 20 /19 ,Formwork to concrete (7.2m length , 150mm thickness) detailed on Eng. Drawing (a) 900mm x 900mm	m	0		
23.02	<b>SLABS AND DRIFTS</b>				
	(a) Concrete Class 25/19 concrete drifts reinforced with y12 bi-directional top and bottom(0.2*9*7.2m)	m <sup>3</sup>	0		
	(b i) Provide reinforced concrete slabs for access reinforced with Y10 200c/c to residential plots as instructed by the Engineer ( 0.15m*0.5m*2.5m)	m <sup>3</sup>			
	(b ii) Provide reinforced concrete returning walls for access reinforced with Y10 200c/c to residential plots as instructed by the Engineer(4.5*0.1*0.6m)	m <sup>3</sup>	0		
	(c ) Extend the existing manholes from the road base and install industrial manhole covers as directed by the Project Eng.	items	7		
<b>2500</b>	<b>PITCHING ,STONEWORK AND PROTECTION AGAINST EROSION</b>				
	(a) Provide and construct mesh reinforced concrete scour checks at interval on rosiion prone sections as directed by the Engineer	no.	0		
<b>Sub Total to Summary</b>					

Bill of Quantities					
Road name:Weba road			Bill #4 : New pavement works.		
Project name: Grading and gravelling of roads			Surface Type: Stone Base		
Road Length: 600m					
ITEM No.	DESCRIPTION	UNIT	QUANT	RATE (K)	AMOUNT (K)
D	MASS EARTH WORKS				
33.01	ROADBED PREPARATION				
	(i) Rip, scarify in situ material to a depth of 100mm, water, mix, shape to give standard cross section and compact to 90% MOD AASHTO (93% for sand) as shown on the drawings and specifications and/or as instructed by the Engineer on site	m <sup>3</sup>	420		
33.02	PAVEMENT LAYERS OF IMPORTED GRAVEL MATERIAL				
	Cut and borrow to fill, including free-haul up to 10Km:				
	(a) Gravel material in compacted layer thickness of (100mm) and less Compacted to 93% of mOD AASHTO density	m <sup>3</sup>	420		
	(b ) Rock Fill	m <sup>3</sup>			
3600	CRUSHED - STONEBASE				
	(a) Constructed from crushed stones obtained from commercial sources and compacted 10 102% of MOD AASHTO density (maximum size of aggregate 40mm of 100mm thickness)	m <sup>3</sup>	420		