	CONSTUCTION OF 50x5M CABRO PAVING AT VANGA TOWN				
BILL OF QUANTITIES: No.1 PRELIMINARIES & GENERAL ITEMS					
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT RATE (Kshs)**	**TOTAL**
1.01	Allow for Ksh 15,000 Material testings and reagents for the contract duration	PC Sum	1.00	**15,000**	**15,000.00**
1.02	E.O. item 1.02 for Contractor's overheads and profits.	% of item			
1.03	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	1.00		
	Bill No. 1 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.4 SITE CLEARANCE AND TOP SOIL STRIPPING					
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT RATE (Kshs)**	**TOTAL**
4.01	Clear site on road reserve including removal of all growths, bushes,hedges, trees, stumps, grub up roots, vegetation and/or deleterious organic materials, level site and back-fill with approved material to 100% MDD(AASHTO T99) in accordance with the specifications or as directed by the Engineer.	m^2	300.00		
4.02	Strip top soil upto 0.2m in thickness along alignment or material sites including removal of all grass and other vegetation,transport to spoil and spread or stock pile for re-use as directed by the Engineer.	m^3	60		
	Bill No. 4 Total Carried Forward to Grand Summary				
BILL OF QUANTITIES: No.5 EARTHWORKS					
ITEM	**DESCRIPTION**	**UNIT**	**QUANTITY**	**UNIT RATE (Kshs)**	**TOTAL**
	NOTE:All costs and charges connected with haulage are to be included within the unit rates entered against the items described in this Bill of Quantities. No overhaul shall be paid for this items and shall be deemed to have been included in the Contractor's rates				
5.01	Excavate all materials to reduced levels upto 0.15m from the stripped level as per instructions by the Engineer	m^3	45		
5.02	Excavate material, transport over any distance spread, water and compact improved sub grade, all in accordance with the specifications or as directed by the Engineer.	m^3	45		
	Bill No. 5 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.8 CULVERTS AND DRAINAGE WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	Note: No separate payments shall be made for gravel, for blinding, hauling to spoil unsuitable excavation materials, reinforcement of conrete with BRC, excavations and Backfilling of culverts with gravel and the cost of such shall be included in the rates and prices				
8.05	Provide and place class 20/20 concrete as lining for storm water drains in accordance with the specifications including excavation,bedding, reinforcement and backfilling with necessary materials as directed by the Engineer	m^3	2		
	Bill No. 8 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.12 NATURAL MATERIAL SUB-BASE AND BASE

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	No overhaul will be paid for separately under this item and the cost of hauling will be deemed to have been included in the rates. The rates inserted shall include for all costs for acquiring, site clearance, overburden removal, excavation and hauling to site.				
12.01	Provide approved hardcore for 150mm thick subbase,handpack and compact including all treatments to specifications or as per Engineer's instructions	m^3	48		
12.02	Provide, spread, water and compact 100mm thick gravel from an approved borrow pit including all treatments for base layer as directed by the Engineer	m^3	32		
12.03	Provide and spread 50mm thick base quarry dust from an approved quarry as blinding for 80mm concrete paved blocks as directed by the Engineer	m^3	15		
	Bill No. 12 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.20 ROAD FURNITURE

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	Note: No separate payments shall be made for concrete blinding and the cost of such shall be included in the rates and prices				
20.01	Provide lay and join precast concrete kerbs including haunching with concrete				
	(a) Straight	m	110		
	(b) Radius 1-5 m	m	0.00		
20.02	Provide lay and join precast concrete chanels	m	5.00		
20.03	Provide, deliver, paint and mark the road as specified or as directed by the Engineer, with white reflectionized thermoplastic paint from an approved supplier.	m^2	47		
20.04	As item 20.03 but for yellow reflectionized thermoplastic paint	m^2	24		
	Bill No. 20 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.23 PAVED CONCRETE SURFACES

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	Measurements and payment by method "A" as defined in the standard specifications. No separate payments shall be made for the overhaul of material and the cost of such will be deemed to have been included in the rates				
23.01	Provide and place 80mm heavy duty paving blocks well compacted for main carriageways. provide and spread river sand on top of the paved surface to fill in the joints as instructed by the Engineer.	m^2	255		
	Bill No. 23 Total Carried Forward to Grand Summary				

BILL OF QUANTITIES: No.25 ENVIRONMENTAL IMPACT ASSESSMENT AND MITIGATION MEASURES

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
25.01	Allow for Ksh 80,000 for Environmental and Social Impact Assessment(ESIA) Study/Summary Project Report and Environmental Management Plans as per the Directions by the Engineer	Sum	1	**80,000**	**80,000.00**
25.02	E.O item 25.01 for contractor's overhead and profit	%			
	Bill No. 25 Total Carried Forward to Grand Summary				

	SUMMARY				
ITEM	DESCRIPTION				AMOUNT KSHS.
1	Preliminaries and General Items				
4	Site Clearance and Top Soil Stripping				
5	Earth Works				
8	Culverts and Drainage Works				
12	Natural Gravel Base and Subbase				
20	Road Furniture				
23	Concrete Surface Paving Blocks				
25	Environmental Impact Assessment And Mitigation Measures				
(A)	Sub-total (1)				
B					
(D)	16% VAT of sub-total (1)+ 0.03% Capacity Building Levy				
	GRAND TOTAL CARRIED FORWARD TO FORM OF TENDER				

