

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.1 PRELIMINARIES & GENERAL ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
1.01	Allow for Ksh 50,000 Material testings and reagents for the contract duration	PC Sum	1	50,000	50,000.00
1.02	E.O. item 1.01 for Contractor's overheads and profits.	% of item	50,000		
1.03	Allow a Prime Cost Sum of Kshs. 250,000 for attendance upon the Resident Engineer's staff and RE's miscellaneous account to be spent in whole or part as directed by the RE.	PC Sum	1	250,000	250,000.00
1.04	E.O. item 1.03 for Contractor's overheads and profits.	% of item	250,000		
1.05	Provide, erect and maintain publicity signs as directed by the Engineer.	No.	1		
	Bill No. 1 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II**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	1,980.00		
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	396		
	Bill No. 4 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.5 EARTHWORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>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</i>				
5.01	Prepare stripped road surface, mix to attain uniformity, level and compact to 95% MDD (AASHTO T99) the original ground material below fills to a thickness of 150mm.	m ³	522.00		
5.02	Fill in soft material including benching of shoulders and embankments and compaction to 95% MDD (AASHTO T99) in layers not exceeding 150mm	m ³	486.00		
5.03	Provide gravel for improved subgrade, processing and Compaction to 100% MDD.(AASHTO T99)	m ³	609.00		
	Bill No. 5 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.8 CULVERTS AND DRAINAGE WORKS

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>Note: No separate payments shall be made for gravel, for blinding, hauling to spoil unsuitable excavation materials, reinforcement of concrete with BRC, excavations and Backfilling of culverts with gravel and the cost of such shall be included in the rates and prices</i>				
8.01	Excavation in soft material for side drains, cut off drains, pipe culverts, headwalls, wingwalls, apron, toewalls, and drop inlets and compact as directed by the Engineer	m ³	1,200.0		
8.02	As in 8.01 but in Hard Material	m	10.0		
8.03	Provide, lay and joint 600mm dia. concrete pipes (precast to BS 5911 Parts 1 & 3) as directed by the Engineer	m	30.0		
8.04	Provide and place class 15/20 concrete to beds, surround and haunches	m ³	20.84		
8.05	Provide, place and compact class 25/20 concrete for headwalls, wingwalls, aprons, and toewalls to access and cross pipe culverts, miscellaneous ramps including all form work and the provision and placing of reinforcement as shown in the drawings.	m ³	6.9		
8.06	Excavate, provide, lay and install 300mm inner diameter invert block drains (IBDs) including class 20/20 concrete for haunching as directed by the Engineer	m	300.0		
8.07	Prepare surface, provide and lay 600 x 225 x 75 mm side slabs to the drains	m ²	300.0		
8.08	Provide and place class 20/20 concrete for blinding and haunching and storm water drainage lining in accordance with the specifications including excavation, bedding, reinforcement and backfilling with necessary materials as directed by the Engineer	m ³	37.5		
Bill No. 8 Total Carried Forward to Grand Summary					

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

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

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>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.</i>				
12.01	Provide G30 gravel base material, haul, spread, compact to at least 100% M.D.D (AASHTO T-180) and shape to level and tolerance.	m ³	515		
12.02	Provide, spread, shape and compact approved quarry waste for paving blocks laying course as per the specifications.	m ³	165		
	Bill No. 12 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.20 ROAD FURNITURE

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
20.01	Provide lay and joint concrete class 20/20 kerbs in support to carriageway, bus bays and junctions	m	1,260		
20.02	As 20.02 but for road channels 100 x 125mm	m	22.50		
20.03	Provide, deliver, paint and mark the road as specified or as directed by the Engineer, with yellow reflectionized paint from an approved supplier.	m ²	40.0		
20.04	As item 20.03 but for white reflectionized paint	m ²	80.0		
	Bill No. 20 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.23 PAVED CONCRETE SURFACES

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
	<i>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</i>				
23.01	Provide and lay 80mm thick Interlocking - Heavy duty - plain (Deformed) paving blocks with naturally occurring clean sand or crushed rock fines as a joint filler.	m ²	2,520		
23.02	Provide and lay 60mm thick Interlocking Type S paving blocks for the footpath with naturally occurring clean sand or crushed rock fines as a joint filler.	m ²	660		
	Bill No. 23 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II

BILL OF QUANTITIES: No.25 ENVIRONMENTAL MITIGATION MEASURES

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT RATE (Kshs)	TOTAL
25.01	Allow for Environmental and Social Impact Assessment(ESIA) Study/Summary Project Report and Environmental Management Plans as directed by the Engineer	Sum	1.0		
25.02	E.O item 25.01 for contractor's overhead and profit	%			
25.03	Allow for Environmental and Soil Erosion Mitigation Measures as priced in the appendix attached or as per the Directions by the Engineer	PC sum	1.0		
25.04	E.O item 25.03 for contractor's overhead and profit	%			
	Bill No. 25 Total Carried Forward to Grand Summary				

CABRO PAVING OF MORTUARY - MASJID MUADH ROAD - PHASE II**BILL 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	Cross-cutting Issues	
(A)	Sub-total (1)	
(B)	Add 2% CONTIGENCIES of sub total (1)	
(C)	Sub-total (2) = (A + B)	
(D)	Add ...16% VAT of sub-total (2)	
	GRAND TOTAL CARRIED FORWARD TO FORM OF TENDER	

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APPENDIX TO BILLNo.25: ENVIRONMENTAL MITIGATION MEASURES ITEM 25.03				
DESCRIPTION	UNIT	QUANTITY	RATE (KSHS)	AMOUNT (KSHS)
1. Environmental and Soil Erosion Mitigation Measures				
Stone pitching	SM	10		
Bottled drinking water in 500ml and 1 Ltr packs	Litres	100		
Personal Protective Equipment	No	10		
Total carried to Bill Item 25.03				