

The Summary to the Bills of Quantities will take this form or some other form but including these items.

SUMMARY OF BILLS OF QUANTITIES FOR A3 - MAKONGENI POWER STATION - THIKA SEWERAGE TREATMENT WORKS - MUNYU ROAD IN THIKA MUNICIPALITY		
BIL L	DESCRIPTION	BILLED AMOUNT (KSHS.)
No.		
1	GENERAL	
4	SITE CLEARANCE AND TOPSOIL STRIPPING	
5	EARTHWORKS	
8	CULVERTS AND DRAINAGE WORKS	
9	PASSAGE OF TRAFFIC	
12	NATURAL MATERIAL SUBBBASE AND BASE	
15	BITUMINOUS SURF. TREAT.& S DRESSING	
16	BITUMINOUS MIXES	
20	ROAD FURNITURE	
25	CROSS CUTTING ISSUES	
	Sub-Total 1	
	Add 16% of Sub-total for Value Added Tax	
	GRAND TOTAL	

BILL № 25: Cross Cutting Issues					
ITEM	DESCRIPTION	UNIT	QUANTITY	RATE (KShs)	AMOUNT (KShs)
25-50-029a	Provide, erect and maintain publicity signs as instructed by the Engineer.	No.	1		
25-50-028	Allow a Prime cost Sum of Kshs. 50,000 for removal and reinstatement of services.	PC SUM	50,000	1.00	50,000.00
25-50-028a	Include percentage of P.C Sum in item 1.16 for Contractor's overhead and profit	%	50,000		
BILL 25 TOTAL CARRIED TO SUMMARY PAGE					

BILL No. .20...: ROAD FURNITURE...					
ITEM	DESCRIPTION	UNIT	Billed Quantity	Rate (Kshs.)	Amount (Kshs.)
	Provide and lay hot applied thermoplastic road marking compound in approved colour and shade (ASTM 9) for road marking on bituminous surface on centerline, 100 mm, edge line 150 mm wide 3.0mm thick, using fully automatic extrusion machine and using pre-melter for melting thermoplastic material including cleaning the surface of all dirt, dust, and other foreign matter, complete with demarcation at site/pre-marking, finishing and managing the traffic movements. Marking to be done as per the specifications, detailed drawings and as instructed by the Engineer.				
	i)For the road edge marking with white paint, 100 mm wide	m ²	120		
	ii)For centre line of the road marking with yellow paint, 150 mm wide		90		
	iii) As in (i) but for 500mm wide for pedestrian crossing		40		
20-70-003	Provide and erect permanent road signs where instructed by the Engineer and in a accordance with the specifications as follows:- (a) Warning signs.	No.	1		
20-70-004	(c) Standard informatory signs.	No.	1		
20-70-005	(b) Priority, prohibitory and mandatory signs.	No.	1		
20-70-016	Excavate for, provide and place 250 x 125 mm class 25/20 precast concrete raised or ramped kerbs haunched in 100 mm thick class 15/20 concrete base bedding and mortar joined in support to bus bays and junctions as directed by the Engineer - (a) Straight kerbs.	m	20		
20-70-017	(b) Kerbs radius: 5 m-1 m.	m	20		
20-70-037	Ditto 20-70-016 but 100 x 125 mm flush kerbs in support of carriageway and walkway - (a) Straight kerbs	m	20		
20-70-040	(b) Kerbs radius: 5 m-1 m.	m	20		
	Total of Bill Carried Forward to Summary				

BILL No. .15...: BITUMINOUS TREATMENT AND SURFACE DRESSING...					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs.)	Amount (Kshs.)
15-92-001	Prepare surface of carriageway and repair areas, provide and spray MC-30 cutback bitumen at a rate of 0.8-1.2 lt/m2 as prime coat.	Litres	5,760		
	Total of Bill Carried Forward to Summary				

BILL No. .16...: ...BITUMINOUS MIXES...					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs.)	Amount (Kshs.)
16-80-001	Provide, place and compact Asphalt Concrete Type 1 with 5 - 6 % nominal bitumen content by weight to total mix as surfacing on carriageway as directed by the Engineer.	m ³	262.65		
16-80-003	Prepare surface of repair areas provide and spray K1-60 bitumen emulsion as tackcoat or seal to repair areas at a spray rate of 0.8-1.0 L/m2 as directed by the Engineer.	Litres	5,304		
	Total of Bill Carried Forward to Summary				

BILL No. .9...: ...PASSAGE OF TRAFFIC					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs.)	Amount (Kshs.)
09-60-001	Allow for the passage of traffic through the works.	Km	0.6		
	Total of Bill Carried Forward to Summary				

BILL No. .12...: NATURAL MATERAIL BASE AND SUBBASE.....					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (kshs.)	Amount (Kshs.)
	Note: All haulage is to be included in the Contractor's rates and prices. There is no separate payment for overhaul				
12-50-002	Provide, place, water and compact approved natural gravel of subbase quality, on carriageway to min 95% MDD (AASHTO T180) as specified	m ³	1080		
12-50-004	Provide, lay, and compact 150mm hand packed stone material including filling of voids with stone dust and watering as directed by the Engineer.	m ³	765		
	Total of Bill Carried Forward to Summary				

BILL No. 8.: ...CULVERTS AND DRAINAGE WORKS.....					
ITEM	DESCRIPTION	UNIT	Quantity	RATE (Kshs.)	Amount (Kshs.)
08-90-001	Excavation for side drains, culvert inlet and outlet, outfall, mitre and catchwater drains in soft material including removal of all material to spoil, to any depth	m ³	464.5		
08-90-003	Excavate in soft materials for pipe culverts, headwalls, wingwalls, apron, toewalls and drop inlets.	m ³	400		
08-60-032	Provide, lay and joint 450 mm inner diameter (ID) precast concrete pipes.	m	24		
08-60-033	As in item 08-09-032 but 600 mm ID.	m	35		
08-60-035	Provide place and compact class 15/20 concrete to beds, sorrounds and haunches.	m ³	30		
08-60-036	Provide place and compact class 25/20 concrete to drain lining/bed, including form work.	m ³	50.4		
08-60-037	Provide and place A142 fabric mesh reinforcement for item 08-90-009.	m ²	280		
08-90-009	Provide place and compact class 25/20 concrete to headwalls, wingwalls, aprons and toe walls to pipe culverts; and slabs on drains, including form work.	m ³	19.66667		
08-50-004	Provide and lay 200 mm thick grouted quarry dressed stone pitching in 1:4 Cement /sand mortar	m ²	464		
08-50-005	As in item 08-50-004 but to be used as edge restrains of the carriageway	m ²	240		
	Total of Bill Carried Forward to Summary				

BILL No. .4.: ...SITE CLEARANCE AND TOPSOIL STRIPPING...					
ITEM	DESCRIPTION	UNIT	Quantity	RATE	Amount (Kshs.)
04-50-004	Light bush clearance	m ²	2,370.0000		
04-50-008	Clearing obstructions (boulders & debris)	m ³	300.00		
04-50-010	Excavate remove & disposal of concrete structures	m ³	300.00		
04-60-002	Remove top soil to maximum depth of 200mm as directed by the Engineer stockpile good material for later top soiling of slide slopes and landscaping of quarries and borrow pits	m ³	1,200.00		
	Total of Bill Carried Forward to Summary				

BILL No. .5.: EARTH WORKS...					
ITEM	DESCRIPTION	UNIT	Quantity	RATE (Kshs.)	Amount (Kshs.)
	No separate payments shall be made for the overhaul of material and the cost of such haulage shall be included in the rates and or prices				
05-50-008	Cut to spoil in soft material	m ³	3757		
05-50-009	Cut to spoil in Hard	m ³	200		
05-50-006	Provide and fill in approved soft material and compact to 100% MDD (AASHTO T99) as directed by the Engineer.	m ³	3494.4		
05-50-016	Scarify, process and compact existing ground to at least 100%MDD to a depth of 150mm below cuts.	m ³	867		
05-50-017	Provide rockfill to road embankment including compaction	m ³	129.5		
	Total of Bill Carried Forward to Summary				

BILL No. .1...: GENERAL...					
ITEM	DESCRIPTION	UNIT	Quantity	Rate (Kshs.)	Amount (Kshs.)
01-80-010	Allow a provisional Sum for material testing services, reagents, equipment and other Laboratory Services.	PC SUM	70,000.00	1.00	70,000.00
01-80-011	Include percentage of P.C Sum in item 01-80-010 for Contractor's overhead and profit	%	70,000		
01-80-026	Allow a provisional sum of Kshs 200,000 for the Resident Engineer's Miscellaneous account to be spent in whole or part as directed by the Resident Engineer against receipts.	PC SUM	200,000.00	1.00	200,000.00
01-80-027	Include percentage of P.C Sum in item 01-80-026 for Contractor's overhead and profit	%	200,000		
01-80-030	Allow Kshs 400,000 for attendance of the Engineer's Site Staff including Wages and overtime in accordance with clause 137 of special specifications.	PC SUM	400,000.00	1.00	400,000.00
01-80-030(a)	Include percentage of P.C Sum in item 01-80-030 for Contractor's overhead and profit	%	400,000		
01-80-031	Allow Kshs 300,000 as Allowances for Engineer's Site staff in accordance with clause 137 of special specifications.	PC SUM	300,000.00	1.00	300,000.00
01-80-031 (a)	Include percentage of P.C Sum in item 01-80-031 for Contractor's overhead and profit	%	300,000		
01-80-038	Provide,fuel,insure and maintain with driver 4WD double cabin(Odometer 0-60,000 km) Diesel propelled, with engine capacity of not less than 2500cc for the exclusive use by the Resident Engineer inclusive of the first 4000km per vehicle month to revert to the Contractor after the project.	V. Month	3.00		
	Total of Bill 1 Carried Forward to Summary				