Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

	BILL No 3.2.				
ITEM	DESCRIPTION	UNIT	QTY	Rate	Amount
	These works are to be carried out along narrow wayleaves where there may be some existing active services (electrical, water, e.t.c). This should be considered in the Contractor's rates. The quoted rates shall allow for Setting Out of the Works in accordance with the Specifications. This shall include staking out of sites for structures, setting permanent benchmarks etc, and allow for preparation and submission of Construction Drawings and Setting out Report to the Engineer for approval. Include Traffic Diversions, Traffic regulation; establishment, operation and removal for works CLASS A - GENERAL ITEMS Testing of the Works				
	resting of the works				
A260.1	Carrying out test on DN300mm pipeline as specified or directed by the Engineer. Include provision of all equipment and materials	m	1680		-
	CLASS B - SITE INVESTIGATION				
B111	Trial holes where ordered to prove location, construction size etc, of pipelines, services or existing structures (Provisional)	nr	10		-
	CLASS D - DEMOLITION AND SITE CLEARANCE				
D110	General site clearance through undeveloped land over the wayleave, include for any additional clearance required	ha	0.2016		-
D210	Removal of trees and stumps girth 0.1-0.3m	nr	3		-
D220	Removal of trees and stumps girth exceeding 0.3m	nr	1		-
D461	Buildings of indeterminate construction Volume not exceeding 50m3	nr	5		-
D561	Other structures of indeterminate construction Volume not exceeding 50m ³	nr	5		-
	CLASS I: PIPEWORK - PIPES A - SUPPLY OF PIPES Supply, Transport to Site and Store Precast Concrete pipes in accordance to Technical Specifications Sockets and spigots for PCC as directed by the Engineer.				
	SOCKET AND SPIGOT PRECAST CONCRETE PIPES				
1523.1	Supply DN 300mm PCC	m	1680		-
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

	BILL No 3.2.1: SEWERLINES						
ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)		
NO.				` '	` ,		
	B - PIPE LAYING						
	The rate quoted shall be deemed to include excavation						
	and backfilling with selected excavated material, of pipe						
	trenches. The rates shalll also include disposal of						
	surplus material to approved tips, transport of material						
	from site store to working areas, laying and jointing of						
	pipes. The quoted rates shall allow for Setting Out of the						
	Works in accordance with the Specifications. This shall						
	include staking out of the all Pipeline Routes, setting						
	permanent benchmarks etc, and allow for preparation						
	and submission of Construction Drawings and Setting						
	out Report to the Engineer for approval. Include Traffic						
	Diversions, Traffic regulation; establishment, operation						
	and removal for works						
	and removation works						
	Nominal bore 300mm in trenches						
1532	Depth not exceeding 1.5m	m	588		_		
1533	Depth 1.5m - 2.0m	m	336		_		
1534	Depth 2.0 m - 2.5m	m	252		_		
1535	Depth 2.5 m - 3.0m	m	168		_		
1536	Depth 3.0 m - 3.5m	m	134.4		_		
1537	Depth 3.5 m - 4.0m	m	117.6		_		
1538	Exceeding 4.0m	m	84		_		
]						
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	PAGE TOTAL CARRIED TO Bill 3.2.1 COLLECTION PA	.GE			-		

Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
	CLASS K: PIPEWORK - MANHOLES AND PIPEWORK ANCILLARIES				
	The rates entered shall include excavation in material other than rock, construction of the manhole, reinforced concrete cover slab, and MH covers and frames, step irons,backdrop and fittings where necessary, excavation for working, trimming the base of the excavation, shuttering where necessary, backfilling and compaction around the finished manhole and disposing of surplus soil, spreading and making good. Manholes				
	Reinforced Manhole size 1050mm, including reinforced concrete cover slab and 40 ton load bearing capacity GRP/Composite MH frame and cover with clear opening 600mm x 600mm. Provide backdrop and fittings where necessary.				
K151	Depth n.e 1.5m	nr	10		-
K152	Ditto but Depth 1.5 - 2.0 m	nr	5		-
K153	Ditto but Depth 2.0 - 2.5 m	nr	4		-
K154	Ditto but Depth 2.5 - 3.0 m	nr	3		-
K155	Ditto but Depth 3.0 - 4.0 m	nr	2		-
K156	Ditto but Depth exceeding 4.0 m	nr	2		-
K151	Reinstatement of existing Manholes Provide openable reinforced concrete Manhole cover slab with clear opening of 600mm x 600mm. Provide backdrop and fittings where necessary. The works shall also include removal and disposal of solid waste and flushing of the system	nr	200		-
	Crossings, Tunnelling and Reinstatements				
	Include for all work associated with the crossings				
	Include for all work associated with the crossings Pipe nominal bore 300mm				
K641	Hedge crossing and reinstatement;	nr	1		_
K651	Wall crossing and reinstatement;	nr nr	6		-
	Allow for connection to existing trunk and associated				
K681	works	nr	3		-
	PAGE TOTAL CARRIED TO BIII 3.2.1 COLLECTION PA	<u>GE</u>			-

Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

ITEM	BILL No 3.2.4 DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT (KShs)
NO.	DEGOM! HOW	JI411	Q (11	IAIL (Rolls)	Alloon (Rolls)
K731.1	Breaking up, temporary and permanent reinstatement of murram roads as per drawing	m	100		-
K731.1	Breaking up, temporary and permanent reinstatement of cabro paved roads	m	30		-
	CLASS L: SUPPORTS AND PROTECTION, ANCILLARIES TO LAYING AND EXCAVATION				
	Extras to Excavation and Backfilling (Note: Blasting not allowed for any rock excavation)				
	In Pipe Trenches				
L111.1	Excavation in rock Class A	m3	168		-
L111.2 L111.3	-Ditto- but rock Class B -Ditto- but rock Class C	m3 m3	252 336		-
LIII.3	-Ditto- but fock Glass C	1113	330		-
	In manholes and Other Chambers (Note: Blasting not allowed for any rock excavation)				
L121.1	Excavation in rock Class A	m3	50		-
L121.2 L121.3	-Ditto- but rock Class B -Ditto- but rock Class C	m3	75 100		-
L121.3	-Dillo- but fock Class C	m3	100		-
	Bed, Haunches and Surrounds Granular Material				
L33	Pipeline nominal bore 300mm Imported granular material as per specifications for sidefi	m	100.00		_
	Beds 150 mm thick. Also this shall include 200mm comparison the crown of the pipeline				
	CLASS Y: EXISTING SEWER RENOVATION AND ANC	LLARY WOR	KS		
	Cleaning and repair of existing sewerage systems in				
	the project area shall be done where directed by the Engineer				
	The rates should include all ancillary works related to				
	cleaning and repair of existing sewerage and storm systems such as flow diversion, over pumping,				
	maintaining house connection flows, restoration of				
	surfaces, traffic diversion, etc				
	Cleaning debris and flushing of existing sewers with				
	diameters ranging between DN 100mm and DN 600mm,				
Y110	manholes, inlets, outlets, catch basins, gullies and inspection chambers and survey of condition status. All	m	5000		-
	debris should be disposed to an approved dumping				
	area.				
Y220	Upgrade defective sewer and house connections by	m	1000		_
	replacement in the area as directed by the Engineer		1300		_
	Replacement of deteriorated existing manholes and				-
Y634	inspection chambers according to the direction of the Engineer.	nr	30		-
1004					
V700	Repair of deteriorated manholes and inspection	nr	20		-
Y720	chambers according to the direction of the Engineer.				
	PAGE TOTAL GARRIES				
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

BILL No 3.2.	: SEWERLINES	3			
Bill 3.2.1 COLLECTION PAGE					
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

Bill 3.2.2 - CUSTOMER CONNECTIONS (TYPE A)

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT	(KShs)
	FOR PLOTS WITHIN EXISTING POUR PLUSH			,,		
	FACILITIES BUT NOT CONNECTED TO SEWER					
	Approximate No. of Connections is 150					
	The connection works are to be carried out in liason with					
	with the respective Water Service Provider, who will					
	receive, process and approve the applications for					
	connections as per technical specification.					
	The Contractor to confirm with Resident Engineer the					
	exact number of connections and their locations before					
	ordering materials and carrying out any works under this					
	Bill.					
	Consumer Connection Works will commence during the					
	Construction Period and minimal works can extend to the Defects Liability Period (DLP). The connections will					
	be carried out as soon as the sewers are commissioned.					
	Taking Over will be on completion of the Connections.					
	The Contractor should allow for this in their rates. There					
	will be no extra cost of carrying out the Connection					
	Works during DLP.					
	CLASS A: GENERAL ITEMS					
A2	Specified Requirements					
A260	Allow for water testing of the sewer connection including					
	sewer pipes and inspection chambers as specified					
	including all requisite Materials, Personnel, Testing					
	Equipment etc.	m	20.0			-
A277						
	Allow for keeping trenches and other excavation free of					
	water which may have entered through ground seepage, rain or by other means as directed by the Engineer.					
	Tam or by other means as uncoted by the Engineer.	Item	LS			-
	CLASS I - PIPEWORK					
	A - Supply of Pipes					
	The rate to include jointing materials, bolts, gaskets,					
	rubber rings, etc.					
I511	DN 150 mm DWC sewer pipe SN 8	m	20.0			-
	1					
	PAGE TOTAL CARRIED TO Bill 3.2.2 COLLECTION PA	GE				-
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

Bill 3.2.2 - CUSTOMER CONNECTIONS (TYPE A)

ITEM	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT	(KShs)
	B - Pipe Laying					
	The rate quoted shall be deemed to include excavation and backfilling with selected excavated material, of pipe trenches. The rates shall also include disposal of surplus material to approved tips, transport of material from site store to working areas, laying and jointing of pipes. The quoted rates shall allow for Setting Out of the Works in accordance with the Specifications. This shall include staking out of the all Pipeline Routes, setting permanent benchmarks etc, and allow for preparation and submission of Construction Drawings and Setting out Report to the Engineer for approval. Include Traffic Diversions, Traffic regulation; establishment, operation and removal for works					
I512	Depth not exceeding 2m	m	20.0			-
	CLASS J: PIPE FITTINGS					
J423.1	45° DWC Y-Junctions Supply, transport, lay, joint and test, 45° DWC Y junctions. The rate to include lean concrete plug, jointing material, rubber rings etc. DN 150 mm branch off DN 300 mm Mainline	Nr	1			-
	CLASS K: MANHOLES AND PIPEWORK ANCILLARIES					
K21	Masonry Inspection Chambers					
K211	Excavate for, provide all materials and construct 600 x 450mm Masonry Inspection Chamber, in accordance with drawings.Include for provision and fixing of light duty rectangular GRP frame and cover. The rate should be inclusive of two flexible joints adjacent to the Inspection Chamber as detailed. and provision of boxout and sealing for all pipes. Depth not exceeding 1.5m	Nr	1.0			
K6 K651	Crossings Allow for crossing existing boundary wall/ fence, including reinstatement to original state. Pipe nominal bore not exceeding 150mm (Provisional)	Nr	1.0			-
K671	Allow for crossing existing lined drains and reinstate after construction of sewer. Pipe nominal bore n.e. 150mm (Provisional)	Nr	1.0			-
	CLASS L: PIPEWORK - ANCILLARIES TO LAYING AND EXCAVATION Extras to excavation and backfilling in pipe trenches					
L111.1 L111.2 L111.3	Excavation in rock Class A -Ditto- but rock Class B -Ditto- but rock Class C	m3 m3 m3	1.0 1.0 1.0			- - -
X51	CLASS X: MISCELLANOUS WORKS Final Connection to Inspection Chamber Allow for provisional sum for individual connection to provided inspection chamber. Rate to include all pipes and fittings	Nr	1.0			-

Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

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BIII 3.2.2 - CUSTOMER CONNECTIONS (TYPE A)

ITEM NO.	DESCRIPTION	UNIT	QTY	RATE (KShs)	AMOUNT	(KShs)
110.						
	Bill 3.2.2 Collection Page					
	From Page 1					-
	From Page 2					-
	COST FOR ONE (1) CONSUMER CONNECTION					-
	COST FOR 50 CONNECTIONS	Nr	50	0		-
	Bill 3.2.2 TOTAL CARRIED TO Bill 3 SUMMARY PAGE					-

Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

Bill 3.2: SANITATION COMPONENT

Bio-centres

Construction Works

BIII NO. 3.2.3: PROPOSED BIO-CENTRE DEVELOPMENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
140.					
	SUBSTRUCTURES CLASS B: SITE INVESTIGATION				
B111	Trial Holes where ordered to prove location, construction size etc of pipelines, services or existing structures, ground conditions. 1.2-3m (Provisional)	nr	3		
	CLASS D - DEMOLITION AND SITE CLEARANCE				
D100	Clear area within the site of all grass, bushes, shrubs, hedges, grub up roots and cart away to tips as directed by the Engineer	m ²	60		
D210	Cut down trees and removal of trees and stumps, girth 0.5-1m (Provisional)	Nr	1		
D461	Demolision and relocation of exisiting structures (Provisional) CLASS E: EARTHWORKS	m ²	60		
E411	Excavate over site for buildings, roads, etc.average 150mm deep to remove vegetable soil and stack part of material for use as and where directed by the Engineer, cart away surplus to tips	m²	60		
	The rates shalll include for all strutting, shuttering, stabilising the excavation faces,Disposal and keeping the excavation free of water by pumping, bailing or other means				
E211.1	Excavate below stripped level to formation level in common material, part backfill after construction and remainder, cart away to tips or use as fill on site, all as directed by the Engineer. Maximum depth n.e. 1.0 m	m³	45		
E211.2	-Ditto- but maximum depth 1.0 m to 2.0 m	m ³	45		
E211.3	-Ditto- but maximum depth 2.0 m to 3.0 m	m ³	45		
E211.4	-Ditto- but maximum depth 3.0 m to 4.0 m		45		
E211.5	-Ditto- but maximum depth exceeding 4.0 m	m^3	25		
E211.6	Foundations and bases of isolated piers and walls 0.00 - 1.50 metres deep	m ³	60		

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BIII 3.2: SANITATION COMPONENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	Extra Over Excavation in any Position For:- (Provisional)				
E233 E234 E235	Excavation in rock Class A -Ditto- but rock Class B -Ditto- but rock Class C	m3 m3 m3	2 4 4		
	Filling				
	Includes placing and compacting as specified.				
E635	Fill and ram selected excavated materials around foundations and buildings	m ³	20		
	Approved Hardcore Filling as Described:-				
E636	300mm thick selected hardcore fill to make - up levels, well rolled smooth and compacted to receive polythene Dpm.	m²	60		
E637	Provide, lay and level out fine crushed stone, sand or gravel blinding 50mm thick to surface of filling, including watering and rolling to achieve satisfactory compaction	m²	60		
	CLASS W: WATERPROOFING Damp-proof Membrane				
W153	Supply and lay 1000 gauge polythene sheet DPM sheet over hardcore	m ²	65		
	Anti-Termite Treatment				
X9.2	Supply and application of Termidor 25EC pesticide treatment for the control of termites to the soil beneath the foundations, executed by a Pesticides Control Products Board licenced professional pest control operator, with a ten year guarantee to surfaces of excavations	m²	65		
F511	CLASS F: CONCRETE WORK Mass Concrete Class 15/20mm Maximum Aggregate as Described in:- 50mm Thick blinding under foundation concrete, column bases or over hardcore	m³	4		
	Reinforced Concrete Class 25/20mm Maximum Aggregate as Described in:-				
F621	Foundation trenches, column bases and entrance steps	m^3	10		
F622	150mm Thick foundation and ground floor bed	m ³	18		
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
F623	Ground level beam and foundation beams	m ³	4		
F624	150mm Thick ramp laid to slope not exceeding 15 degrees from horizontal at entrance	m^2	4		
F625	Extra over concrete for tamping whilst still green to make ribbed finish	m²	4		
	Reinforced Concrete Class 25/20mm Maximum aggregate as Described in:-				
F626	Isolated columns and piers in foundations CLASS G: CONCRETE ANCILLARIES Fabric Reinforcement No. A142 Mesh Size 200 x 200mm Weighing 3.95 kgs Per m², Including Bends, Tying Wire and Distance Blocks:-	m ³	4		
G562	Fabric reinforcement with minimum 200mm wide side and end laps, laid in bed	m²	50		
	Provide and Fix High Tensile Steel Reinforcement to SRN 127 including Cutting, Bending, Propping with Spacers and Tying as Specified :-				
G522	Reinforcement, all diameters	Kg	2,170		
	Formwork				
G242.1	Provide and Fix Shuttering Including Propping, Strutting and Striking, all as Specified Sawn Formwork - Class F1 Finish:- Vertical sides of column bases, columns, sides of foundations and steps in foundations Wrot Formwork - Class F3 Finish:-	m^2	140		
G242.2	Edges of beds, pavings, plinths and risers of steps not exceeding 300mm wide	m²	10		
	CLASS U: MASONRY				
	Walling. Supply, jointing with Cement Mortar (1:3) or otherwise specified, including reinforcing with 20 swg Hoop Iron at alternate course.				
U821	Foundation/ Sub structure walling- Supply, joint with sand cement motar 200mm thick Load bearing Natural Stone masonry walling as specified in the drawings. Stone dressing to be specified and approved by the Engineer. Minimum compressive strength of 10N/mm2	m^2	150		
	Solid Concrete Block Walling With Concrete Blocks to BS 2028, Type "A" with Minimum Crushing Strength of 3.7N/mm² at 28 Days, Reinforced with 20 swg Hoop Iron at alternate course, and Bedded, Jointed and Pointed in Cement Mortar (1:4):-				
U822	200 mm Walling	m ²	30		

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MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

Water and Sanitation Works in the Nairobi Informal Settlements

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BIII 3.2: SANITATION COMPONENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
NO.	Wall finishes				
G812.1	Supply and place sand cement motar mix ratio 1:3, 12mm thick for all internal wall plastering to detail.	m^2	100		
G812.2	Supply, prepare and apply three coats of bituminous paint as instructed rendered to ground floor soffit plinths and internal walls	m^2	150		
	CLASS W: WATERPROOFING Damp-proof course:				
	Bituminous felt damp-proof course as described:-				
W153	Supply and install approved bituminous felt damp proof course 200mm Wide under walls. 150 mm laps; horizontal, 1 no. layer, bedded in cement sand (1:3)mortar	m	60		
W193	Ditto 100mm Wide under walls	m	20		
	DOME				
	CLASS F: CONCRETE WORK Supply and Place				
	Reinforced Concrete Class 25/20mm Maximum Aggregate as Described in:-				
F523	Curved surfaces.	m^3	22		
	Solid Concrete Block Walling With Concrete Blocks for dome to BS 2028, Type "A" with Minimum Crushing Strength of 3.7N/mm² at 28 Days, Reinforced with 20 swg Hoop Iron at alternate course, and Bedded, Jointed and Pointed in Cement Mortar (1:4):- CLASS U: MASONRY				
U823	100 mm Walling	m^2	110		
	Wall finishes				
G812.1	Supply and place sand cement motar mix ratio 1:3, 12.5mm thick for all wall plastering to detail.	m^2	220		
G211	CLASS G: CONCRETE ANCILLARIES Wrot Formwork - Class F3 Finish:- For all concrete works	m^2	210		
	Provide and Fix High Tensile Steel Reinforcement to SRN 127 Including Cutting, Bending, Propping with Spacers and Tying as Specified :-				
G242	Reinforcement, all diameters	Kg	200		

NAIROBI WATER AND SANITATION PROJECT			
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
1512	CLASS I: PIPEWORK - PIPES Pipework. Supply and install Supply and fix 20mmø GI pipes with coupling units including gas valve. Allow for installation through concrete to dome	m	30		-
	SUPERSTRUCTURE				
	CLASS F: CONCRETE WORK				
	Reinforced Concrete Class 25/20mm as Described in:				
F651	First floor slab, stair case and tank plinth	m ³	10		
F652	Columns and beams including support members to tank plinth	m ³	10		
F653	75mm thick, 500mm x1000mm wide, 900mm high raised plinth in shower units for supported on masonry walling support at ends and center I washrooms and dressing area. Finishing with 200mm x 300mm ceramic tiles on top and front face (measured separately)	m ³	6		
	CLASS G: CONCRETE ANCILLARIES				
	Provide and Fix Shuttering Including Propping, Strutting and Striking, all as Specified				
	Wrot Formwork - Class F3 Finish :-				
G261	Vertical sides of columns	m ²	30		
G262	Sides and soffits of beams	m ²	110		
G263	Edges of beds, pavings, plinths and risers of steps not exceeding 300mm wide	m²	10		
	Reinforcement				
	Provide and Fix High Tensile Steel Reinforcement to SRN 127 Including Cutting, Bending, Propping with Spacers and Tying as Specified :-				
	Supply and fixing of all assorted reinforcement bars in roof slab,staircase, columns, beams, Bucket placing bay,tank base slab and floor slab				
G527	Reinforcement, all diameters	Kg	2,630		
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	CLASS U: MASONRY				
	External Walls				
	Solid Concrete Block Walling With Concrete Blocks to BS 2028, Type "A" with Minimum Crushing Strength of 3.7N/mm ² at 28 Days, Reinforced with 20 swg Hoop Iron at alternate course, and Bedded, Jointed and Pointed in Cement Mortar (1:4):-				
U821	200mm Thick walling	m^2	130		
	Labours				
U822	Extra over walling for ruled horizontal and flush vertical joints	m ²	140		
	Precast Concrete Louvre Block Walling :-				
	Internal Walls				
	Solid Concrete Block Walling With Concrete Blocks to BS 2028, Type "A" with Minimum Crushing Strength of 3.7N/mm² at 28 Days, Reinforced with 20 swg Hoop Iron at alternate course, and Bedded, Jointed and Pointed in Cement Mortar (1:4):-				
U823	200mm Thick walling	m^2	30		
U824	100mm Thick walling	m^2	90		
	CLASS W: ROOF COVERINGS				
	Pre-painted Gauge 24 IT5 Roofing Sheets Laid at 22.5° on: Timber Trusses. Supply and install				
W371.1	Roofing Sheets. 28 gauge pre-painted iron sheets	m^2	60		
W371.2	Polycarbonate Transparent Roofing sheets or approved equivalent	m^2	50		
	Extra Over Roofing Sheets For:-				
W371.3	Ridge and hip cappings	m	20		
	CLASS O: TIMBER				
	Roof Trusses, Other Members- Hip and valley rafters, struts ties purlins, king posts Supply and fix as per drawings				
	Double Pitch Roof Truss With 600mm Eaves Projection, in 150 x 50mm Rafters, Ceiling Joists, Struts and Ties in Sawn Cypress Grade II Seasoned and Pressure Impregnated with Wood Preservative and Timber Joints With Bolted and Nailed Connections to the Engineer's Approval:-				

	NAIROBI WATER AND SANITATION PROJECT						
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	MATOPEN	I SETTLEMEN	IT				
	Bill 3.2: SANITA	TION COMPO	DNENT				
4.40	Equal truss 3250mm clear span and 800mm high	Nr	0				
4.50	Equal truss 4500mm clear span and 1100mm high	Nr	0				
	Other Roof Members						
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Water and Sanitation Works in the Nairobi Informal Settlements

MATOPENI SETTLEMENT

BIII 3.2: SANITATION COMPONENT

Bill NO. 3.2.3. PROPOSED BIO-CENTRE DEVELOPMENT

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	Sawn Cypress Grade II Maximum Moisture Content 12% Seasoned and Pressure Impregnated with Wood Preservative and Timber Joints with Bolted and Nailed Connections to the Engineer's Approval:-				
O811	150 x 50mm rafters	m	50		
O812	150 x 50mm bottom, ends and top chords	m	100		
O814	75 x 50mm internals	m	170		
O815	150 x 50mm kingpost	m	10		
O816	50 x 50mm purlins	m	70		
O817.1	ACCESSORIES 100 x 50mm Wall plate tied to wall with 20 s.w.g. hoop iron at 900mm centres and bedded in cement mortar (1:4) on top of wall	m	10		
	Sundries				
O817.2	Bed wall plate in cement mortar (1:4)	m	10		
	Joinery				
	General Timbers				
	Suppy and install				
	Wrot Prime Grade Cypress, Including Finishing With Three Coats First Quality Gloss Paint :-				
O818	250 x 40mm Fascia board	m	30		
O819	Tongue & Groove (T&G) Boarding on underside of roof overhang, including provision of roof venting holes with gauze.	m ²	30		
	ACCESSORIES Extras Supply and fix				
O820.1	150 x 150mm gutter fixed to fascia board and barge boards with holder bats, including painting	m	30		
O820.2	Extraover gutter for pipe outlet	nr	2		
O820.3	Ditto closed ends	nr	4		
O820.4	100mm diameter down pipes fixed to wall with clips	m	15		
O820.5	Extra over pipe for swan neck bend	nr	2		
O820.6	Ditto horse shoe bend	nr	2		

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ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
	CLASS N: METALWORK				
	Suppy and Fix				
	Steel Doors				
	Pressed Metal Louvre Doors				
	Supply and Fix the following Pressed Metal Louvre Doors with 100 x 50mm Stiles and Top Rails, 150 x 50mm Middle and Bottom Rails With Pressed Metal Infill Louvres and 100 x 50mm Pressed Metal Frames, Including Hinges, Pad Bolts and Tower Bolts, All To Manufacturer's Details, with three coats gloss paint complete with Opening Accessories Including Bedding and Pointing Around Frames in Cement Mortar:-				
N190	Single door size 900 x 2400mm high (D2)	Nr	6		
	Staircase				
N191	25 x 3mm CHS handrail welded to 300mm horizontal CHS (3No.on each side of staircase) and bolted to wall bolted to wall;spray painted.	m	30		
	CLASS Z; SIMPLE WORKS INCIDENTAL TO CIVIL ENGINEERING WORKS				
	DOORS AND WINDOWS Doors and Door Frames				
	Supply and Fix 50mm Thick Prime Grade Cypress Panelled Door With 50 x 100mm Stiles and Top Rails,50 x 150mm Middle and Bottom Rails and Infill Panels in 50 x 100mm T & G battens. Rate to include for 3 Nr 100mm steel heavy duty washered butt hinges, three lever mortice lock as 'Union Ref:2237' with a set of aluminium lever handles as "Union" Ref.681-06-02 and rubber door stop and three coats of gloss paint complete with bedding and pointing around frames in cement mortar.				
	Door Frames -Wrot Cypress Door Frames size 100 x 50mm with a suitable rebate to receive hinged door panel, including suitable mild steel clamps fixed to back of frame and fixing to door opening size and all necessary woodwork finishes (prepare, knot, prime, stop and apply two undercoats and one finishing coat hard gloss paint to woodwork):-				
Z581	900mm wide x 2100mm high Door	Nr	11		
Z582	Double leaf full swing door size 1200 x 2400mm high	Nr	2		
Z583	Door size 900 x 2400 mm high with 990 x 140mm Georgian wired clear glass view panel- Entrance to hall area	Nr	1		

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ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
Z584	Supply and fix Stainless steel buffer coat hooks	Nr	14		
Z585	Supply and fix 100mm D-pull handles	Nr	1		
Z586	50x25mm architrave	m	98		
Z587	15mm rounded quadrant	m	98		
	PVC windows				
	Supply and Fix the Following Standard Section PVC Casement Windows, Including 4mm Thick Clear Sheet Glass Secured with Casement Screw-less Push-in Mechanism, Complete with Locking and Opening Accessories and Water Proofing Around Opening; fixing framing to concrete, window cills-all to Engineer's Approval.				
Z 514	Window size 1597 x 1197mm high in 3 equal panels, with upper part having 2 No. fixed and 1 No. top-hung ventilator, and lower half having 2No. Side-hung panels opening outwards, and 1No. Fixed panel	Nr	5		
Z 515	Window size 1897 x 597mm high in 3 equal panels, with upper part having 1 No. fixed and 2 No. top-hung opening outside	Nr	5		
	Burglar proofing comprising 25 x 3mm thick vertical and horizontal mild steel members at 150mm centres, including one coat chemical resistant paint and fixing on the following windows:-				
Z523	Gauze size 1597 x 1197mm high	Nr	5		
Z524	Gauze size 1897 x 597mm high	Nr	5		
	CEILING				
	12mm Thick Approved Plasterboard in Sheets Size 2400 x 1200mm Fixed to and Including 50 x 50mm Sawn Cypress Grade 2 Battens at 600mm Centres in Both Directions Complete with Gauge Jointing Material				
Z503	Horizontal ceiling fixed to underside of trusses	m^2	60		
Z504	12mm Cornice 50mm high, plugged	m	110		
Z 505	Extra over ceiling lining for forming removable access trap door size 600 x 600mm with 100 x 38 mm sawn treated cypress trimming joists between tie beams,120 x 20mm (finished) wrot cypress frame all round and 20mm blockboard removable panel set loose on top of framing	Nr	2		

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110.	CONCRETE ACCESSORIES RENDERING				
	12.5mm Thick Cement and Sand Render as Described Externally on :-				
G813.1	Blockwork and concrete surfaces	m ²	120		
	Screeds				
	Bonded cement and sand (1:4) screed bed in one coat, well bonded to concrete base as described:-				
G812.1	25mm Thick screed laid level to receive floor tiling (measured separately)	m^2	50		
G812.2	12mm (minimum) Thick Cement and sand backing (1:4) with approved plasticiser to receive granito floor laid to skirtings, treads and risers (measured separately)	m²	30		
	Bonded cement and sand (1:4) screed bed in one coat with approved hardener incorporated in the mix, well bonded to concrete base as described:-				
G813	12mm (minimum) Thick screed laid level to receive ceramic wall tiles (measured separately)	m²	180		
	PLASTERING				
	12.5mm Thick Gauged Cement Plaster as Described Internally on :-				
G814	Blockwork and concrete surfaces	m ²	460		
	CLASS V: PAINTING				
	Prepare and Apply Three Coats Exterior Quality Plastic Emulsion Paint:-				
	Externally on:-				
V523	Fair-faced concrete surfaces	m^2	120		
	Internally on:-				
V524	Plastered walls and surfaces	m^2	348		
	CLASS Z; SIMPLE WORKS INCIDENTAL TO CIVIL ENGINEERING WORKS				
	Wall Tiles Approved Coloured Ceramic Floor Tiles as supplied by M/s Tile & Carpet Centre, or other equal and approved				
Z452	200 x 300mm Thick coloured wall tiles laid on backing (measured separately) and joints filled in approved filler to match colour of tiles	m²	170		

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			l l	
undries				
VC tiling edge to external corners of tiles (Provisional)	m	75		
LOOR FINISHES				
eramic Floor Tiling				
pproved Coloured Ceramic Floor Tiles as supplied y M/s Tile & Carpet Centre, or other equal and pproved				
00 x 300mm Non-slip Tiles laid on screed (measured eparately) and joints filled in approved filler to match solour of tiles	m^2	100		
itto but laid as skirting 100mm high	m	200		
LUMBING AND DRAINAGE				
upply and install				
uilders Work in Connection with Sanitary Fittings				
llow for cutting and leaving all necessary holes, otches, mortices, sinkings and chases both in the cructure and its finishes and for all making good in connection with the following (All Provisional): -				
Il sanitary appliances shalll be supplied and installed is complete units with all fittings, fixtures, pipework to anholes, waste grits & traps and shalll be as specified or approved equal. Rate to include for all 25 - 50mm dia pework (PPR and GI pipes), Gate Valves and Taps (egler type, English) and connection to water supply and connection to foul water drainage System.				
hite vitreous china squatting level wash down Water loset suit complete with high level 6 litre cistern and ush pipe.	Nr	6		-
itto but Water Closet (W.C) western type complete with istern	Nr	2		-
Thite vitreous china 1000mm x 1000mm basin ashbasin complete with taps and waste water traps	Nr	4		-
nower unit complete with shower head and all taps and onnections to water tank and connection to foul water rainage	Nr	5		-
irror size 3000 x 600mm plugged and screwed to wall th chromium plated domed screws complete with 5mm ick foam back rest.	Nr	2		-
pilet roll holder	Nr	8		-
Le pyon Open un illoren illore	proved Coloured Ceramic Floor Tiles as supplied M/s Tile & Carpet Centre, or other equal and proved O x 300mm Non-slip Tiles laid on screed (measured parately) and joints filled in approved filler to match our of tiles to but laid as skirting 100mm high UMBING AND DRAINAGE Deply and install iilders Work in Connection with Sanitary Fittings ow for cutting and leaving all necessary holes, thes, mortices, sinkings and chases both in the ucture and its finishes and for all making good in nection with the following (All Provisional): - sanitary appliances shall be supplied and installed complete units with all fittings, fixtures, pipework to inholes, waste grits & traps and shall be as specified approved equal. Rate to include for all 25 - 50mm dia ework (PPR and GI pipes), Gate Valves and Taps (gler type, English) and connection to water supply disconnection to foul water drainage System. In the vitreous china squatting level wash down Water is set suit complete with high level 6 litre cistern and ship pipe. In the titreous china 1000mm x 1000mm basin shbasin complete with taps and waste water traps over unit complete with shower head and all taps and nections to water tank and connection to foul water image. The complete with shower head and all taps and nections to water tank and connection to foul water image. The complete with shower head and all taps and nections to water tank and connection to foul water image. The complete with shower head and all taps and nections to water tank and connection to foul water image. The complete with shower head and all taps and nections to water tank and connection to foul water image.	proved Coloured Ceramic Floor Tiles as supplied M/s Tile & Carpet Centre, or other equal and proved On a 3000mm Non-slip Tiles laid on screed (measured parately) and joints filled in approved filler to match our of tiles on but laid as skirting 100mm high multiples of the but laid as skirting 100mm high multiples of the but laid as skirting and leaving all necessary holes, toches, mortices, sinkings and chases both in the ucture and its finishes and for all making good in necetion with the following (All Provisional): - sanitary appliances shall be supplied and installed complete units with all fittings, fixtures, pipework to inholes, waste grits & traps and shall be as specified approved equal. Rate to include for all 25 - 50mm dia ework (PPR and Gl pipes), Gate Valves and Taps (gler type, English) and connection to water supply distributed to foul water drainage System. In the vitreous china squatting level wash down Water uset suit complete with high level 6 litre cistern and shippe. In the but Water Closet (W.C) western type complete with term with taps and waste water traps of the pipe. In the vitreous china 1000mm x 1000mm basin shbasin complete with shower head and all taps and the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed screws complete with 5mm on the chromium plated domed sc	OOR FINISHES ramic Floor Tiling proved Coloured Ceramic Floor Tiles as supplied M/s Tile & Carpet Centre, or other equal and proved O x 300mm Non-slip Tiles laid on screed (measured barately) and joints filled in approved filler to match our of tiles to but laid as skirting 100mm high UMBING AND DRAINAGE poply and install iliders Work in Connection with Sanitary Fittings ow for cutting and leaving all necessary holes, taches, mortices, sinkings and chases both in the fucture and its finishes and for all making good in nection with the following (All Provisional): - sanitary appliances shall be supplied and installed complete units with all fittings, fixtures , pipework to inholes, waste grits & traps and shall be as specified approved equal. Rate to include for all 25 - 50mm dia ework (PPR and Gl pipes), Gate Valves and Taps (gler type, English) and connection to water supply di connection to foul water drainage System. Interviteous china squatting level wash down Water seet suit complete with high level 6 litre cistern and shippe. Into but Water Closet (W.C) western type complete with term Nr 4 Dower unit complete with shower head and all taps and shall to complete with shower head and all taps and connections to water tank and connection to foul water diange Tor size 3000 x 600mm plugged and screwed to wall in chromium plated domed screws complete with 5mm Nr 2 ck foam back rest.	OOR FINISHES ramic Floor Tiling proved Coloured Ceramic Floor Tiles as supplied M/s Tile & Carpet Centre, or other equal and proved 0 x 300mm Non-slip Tiles laid on screed (measured parately) and joints filled in approved filler to match 100 100 100 100 100 100 100 1

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ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
Z530.7	Recessed soap tray	Nr	5		-
Z530.8	Chrome plated shower rail size 25mm diameter x 900mm long complete with fixtures	Nr	5		-
Z530.9	Supply and fix 12mmø GI water pipes with coupling units	Nr	10		-
Z530.10	Urinal bowl with urinal automatic flushing system complete with cistern and flush pipes	Nr	3		
11.91	Wall mounted washbasin as "Twyfords Entice 575" with one tap & 32mm waste grit *basin mixer as "Europath Astra" with aerator & pop -up waste.*32mm CP bottle trap with tail pipe, cap-nut & wall flange as "Cobra" 340 &C-342/1/2/3	Nr			
	Foul/Waste drainage				
Z540.1	Excavate pipe trench in ordinary ground for 160mm diameter pipe between 0 - 2m and 600mm wide	m	30		
Z540.2	Provide lay and joint uPVC pipes golden brown Class 41 160mm diameter. Include for all fittings and connections to inspection chambers.	m	30		
	Inspection Chambers				
Z540	Excavate for, provide all matterials, special shuttering e.t.c and construct 600 x 450mm internal dimentions in situ concrete inspection chambers on sewers diameter 160mm.Include for building in pipes, forming benching to falls, medium duty fibre reinforced frame and cover, depth n.e. 1.5m.	Nr	5		
	WATER SUPPLY AND STORAGE				
Z 550	Allow a Provisional Sum of Kshs. 30,000 for Connection of Ablution Block to existing water supply sytem including provision of meters etc.	Item	P.S		
Z 551	Allow for provision all materials and instal pipework as directed by the Engineer to provide a water selling point with requisite water meters (DN 25 mm cold water meter (Multijet, as specified in the specifications), stand pipes and taps.	Nr	1		
Z552	Provide and install an approved 1 Nr 10000 litres capacity plastic water tank complete with provisions for inlet pipe, outlet pipe,overflow pipe and drain pipe to site drainage and requisite chambers. The rate to also include for ball valve 32mm diameter medium pressure ball valve as as approved by Engineer with brass stem and plastic float, screwed to threaded socket of tank including union. Provide and install burglar proofing with mild steel frame around the tank.	Nr	1		
	ELECTRICAL WORKS				
II	l l		I	1	

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		SETTLEMEN				
	Bill 3.2: SANITA	TION COMPO	DNENT			
Z561	Allow a Provisional Sum of Kshs. 150,000 for connection to nearest KPLC power.	Item	P.S			
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ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	RATE (Kshs)	AMOUNT (Kshs)
NO. 	Allow a Provisional Sum of Kshs. 200,000 for provision and installation of electric fittings and fixtures to the ablution block including all wiring, cabling, security lights,sockets, switches, Consumer Unit, Meters, lighting fixtures etc as directed by the Engineer.	ltem	P.S		
	SITE AND ANCILLARY WORKS	I			
	FOOTPATHS	ı			
Z 521	Provide, lay and compact 150mm thick approved murram base to footpaths (Provisional)	m ²	9		
Z522	Provide and apply approved weed killer to murram base for footpaths (Provisional)	m²	9		
Z523	Precast concrete paving in 600mm x 600mm x 60mm slabs jointed and grouted up in lime and sand (1:3)	m²	9		
	FENCING AND GATES				
14.50	Excavate for post holes, provide all materials and construct Barbed Wire Fence on wattle posts posts at 3m centre to centre including straining posts at every 10th post and additional posts at corners	m	60		
14.60	Provide all materials and construct metal gate 2.0m wide including 2 Nr. Pillars, footings, etc.	Nr	1		
	SURFACE WATER DRAINAGE & GRASSING				
	Earth Drains	İ			
Z512	Excavate trapezoidal earth drains to the lines and levels directed by the Engineer. Allow for trimming of sides to correct slopes and cart excavated material to tips. Depth to invert n.e. 2.0m	m³	14		
	Culvert Pipes	İ			
14.11	Excavate trench depth n.e. 2.5 m, supply, lay and joint for 900mm diameter precast concrete ogee pipes including 200mm Class 20/20 concrete surround, backfill after laying of pipes, compact and cart away surplus material to tips	m	7		
	Headwalls	l			
14.12	Excavate for, provide all materials and construct 225 mm thick masonry headwalls including concrete Class 15/20 footings, all in accordance with standard drawings	Nr	2		
	Grassing				

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Z 515	Spread Top Soil stacked on site (under item 1.12) in 100mm layers as directed, level and compact (light compaction) and prepare ready for grassing. Provide and plant approved grass and maintain until it takes root. The rate to include provision of manure approximate 0.01 kg per metre squared and spreading as directed by the Engineer	m ²	24		
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11.51	COLLECTION				
1.00	From page 1				-
2.00	From page 2				-
3.00	From page 3				-
4.00	From page 4				-
5.00	From page 5				-
6.00	From page 6				-
7.00	From page 7				-
8.00	From page 8				-
9.00	From page 9				-
10.00	From page 10				-
11.00	From page 11				-
12.00	From page 12				-
13.00	From page 13				-
	TOTAL FOR 1No. Biocentre	<u> </u> 	<u> </u> 	 	-
	No. of Biocentres		1		
	TOTAL FOR 1No. Biocenters Carried to Bill Summary				-
	Summary				

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BII TOTAL CARRIED TO GRAND SUMMARY	-			

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BILL 3.2.3.- COLLECTION PAGE

ITEM	DESCRIPTION	AMOUNT (KShs)
IIEW		AWOUNT (KSIIS)
	Bill 3.3.3 COLLECTION PAGE	
	TOTAL Bill 3.2.1 - SEWERS	-
	TOTAL BIII 3.2.2 - CUSTOMER CONNECTIONS (TYPE A)	-
	TOTAL BIII 3.2.3 - BIO CENTRE	-
	0.00	