

BILL OF QUANTITIES FOR KIPUNGANI SEA WALL

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO 17 CONCRETE WORK (All Provisional)				
17/1	Clear site of all obstacles and dispose as directed by the Engineer on site.	SM	500		
17/2	Set out works over land and water	ITEM	1		
17/3	Excavate top soil to remove sea vegetation to a depth not exceeding 500mm, and dispose as directed by the Engineer.	CM	80		
17/4	Excavate in water – logged loose sand to a depth not exceeding 1.5m for construction of seawall foundation (rate to include cost of keeping sides of trenches vertical).	CM	80		
17/5	Cast In-situ 1200x500mm mass concrete footing using OPC class 25/20(mix 1 ½:3).	CM	84		
17/6	Construct a 200mm thick concrete block wall sloping at 2:1, average height 2.0m. Construct a vertical portion 0.5m high at the top of the sloping wall to make the wave-screen wall (rate to include cost of making concrete blocks to class A1 and pointing of wall joints)	SM	350		
17/7	Provide weep-holes on the wall using 100mm diameter UPV pipes	NO	60		
17/8	Construct a stone pitch layer behind the sloping block wall, with weep-holes running through them – thickness 300mm	SM	280		
17/9	Provide and place behind stone-pitch layer approved filter cloth as polyfelt Ts 1000 or equivalent, held in position at the top and bottom by 50mm Ø mangrove poles. (Rate to include cost of stitching the consecutive pieces of filter cloth together – overlaps to be 300mm).	SM	280		
17/10	Provide and consolidate in layers of 300mm sand fill behind the seawall.	CM	600		
17/11	Provide all materials and construct 3No. Staircases on side of the of the concrete block wall	No.	3		
17/12	Allow for construction of purpose made mooring bollards and place at points as directed by the Engineer on site	No.	14		
CARRIED TO COLLECTION					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Pavement				
17/11	Cast insitu a strip footing, 450 x 200mm of mass concrete class 25/20, 600mm below the finished sand backfill level.	CM	13		
17/12	Construct a concrete block wall, 500mm high, 200mm thick to carry pavement slab (rate to include cost of making the concrete blocks).	SM	70		
17/13	Provide and place approved Hardcore, compacting it adequately in two layers between the stone pitch layer and the pavement wall. Thickness 300mm.	CM	42		
17/14	Provide and place approved murrum blinding, 50mm thick to receive the pavement concrete.	SM	140		
17/15	Cast in-situ 100mm pavement slab class 25/20, sloping 1:100 towards the sea (slabs to be in lengths of 2.0m cast alternately so that false cracks develop between adjacent slabs).	SM	140		
17/16	Provide and place wroth shutters to sides of paved walkway	SM	15		
CARRIED TO COLLECTION					
	COLLECTION				
	Brought forward from page 1				
	Brought forward from page 2 above				
TOTAL CARRIED TO SUMMARY PAGE					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO. 22 – DAYWORKS				
	PLANT				
	The rates inserted herein are to include all operational and maintenance costs, fuel, oil, grease, drivers, turnboys, wages, supervision, overheads and profits. Only time employed on the work will be paid for.				
A	Concrete mixer	HR	5		
B	Concrete vibrating poker type	HR	5		
C	1CM self – propelling concrete dumper	HR	5		
D	50mm delivery pump and motor	HR	5		
E	Guniting Equipment	HR	5		
	LABOUR				
	The rates inserted herein are to include all costs of labour such as insurance, accommodation, traveling, time, overtime, use and maintenance of small tools of trade, supervision, overheads and profits. Only actual time engaged upon the work will be paid for.				
F	Unskilled labour	HRS	5		
G	Artisan	HRS	5		
H	Plant Operator	HRS	5		
I	Steel Fixer and Bender	HRS	5		
J	Steel Erector	HRS	5		
TOTAL CARRIED TO SUMMARY PAGE					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>BILL NO. 22 – DAYWORKS (CONT'D)</p> <p><u>MATERIALS</u></p> <p>All materials to comply with the specifications. The rates inserted herein are to include delivery to the site, handling, overheads and profits.</p>				
A	Ordinary Portland cement	KG	1000		
B	Fine aggregate for concrete	CM	5		
C	Course aggregate for Concrete	CM	5		
D	Timber for Shuttering	LM	100		
E	Polyfelt TS 1000	SM	100		
CARRIED TO COLLECTION					
<p>COLLECTION</p> <p>Balance brought forward from page 3</p> <p>Balance brought forward from page 4 above</p>					
TOTAL CARRIED TO SUMMARY PAGE					

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ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROJECT MANAGEMENT				
	Tenderers shall price for the following requirements for project management. These shall then be availed as and when required by the Project Manager.				
A	Allow for transport for at least 3No. officers to and from site. Transport to be provided as and when instructed by the Project Manager for the duration of the contract for a maximum of 4 trips.	TRIP	4		
B	Provide Airtime for the project manager at a rate of Kshs. 1000/=month, (max 2 months duration).	Month	2		
C	Allow for Profit and attendance for Item B above.	%	15		
	STATIONERY				
	Tenderers shall price for the following stationery requirements for project management. These shall then be delivered, upon first demand, to the office of the County Works Officer immediately after the award to the successful tenderer.				
F	HP Ink Cartridge CE740A	NO	1		
G	HP Ink Cartridge CE741A	NO	1		
H	HP Ink Cartridge CE742A	NO	1		
I	HP Ink Cartridge CE743A	NO	1		
TOTAL CARRIED TO SUMMARY PAGE					

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ITEM	DESCRIPTION	OFFICIAL	CONTRACTOR
	GRAND SUMMARY		
1	Preliminaries		
2	BILL NO 17: Main Works		
3	BILL NO 22: Dayworks		
4	Project management (Transport & Stationery)		
	Sub-total		
	Add 16% V.A.T.		
TOTAL CARRIED TO FORM OF TENDER			

NAME & ADDRESS OF TENDERER.....

SIGNATURE..... DATE.....

WITNESS.....

SIGNATURE..... DATE.....