

WATER TANKS KIRINYAGA

PROPOSED INSTALLATION OF PRESSED STEEL WATER TANKS AT KEMRI KIRINYAGA STATION					
ITEM	DESCRIPTION	QTY	UNIT	RATE (KSHS)	AMOUNT (KSHS)
	High Level Water Tank				
A	A Supply, deliver and assemble a high level water tanks, made of pressed steel sectional tank plates 6mm thick plates and of size 1000mm x 1000mm capacity of tank to be approx. 27000 litres and of preferred dimensions 3000mm x 3000mm x 3000mm. The tank to come complete with reinforced platform, connections as per sample and to approval, tank cover, mosquito proof inspection vent, internal stays, jointing material, bolts and nuts including applying two coats of non-toxic bituminous paint on the inside and two coats of aluminum paint on the outside. The tank shall be complete with the following pipe connections:- -100mm diameter overflow -100mm and 75mm diameter outlets -50mm diameter inlet -100mm diameter washout with gate valve	1	NO		
B	Float switch regulator	1	NO		
C	Water level indicator	1	NO		
D	Internal ladder	1	NO		
E	External ladder from tank platform	1	NO		
F	50mm diameter high pressure ball valve	1	NO		
G	Galvanized tower ladder and protection cage of approximately 16 metres high	1	NO		
H	Galvanized platform with features described in the particular specifications.	1	NO		
I	Galvanized steel tower 15 metres high with features as described in the drawings and specifications	1	NO		
	GROUND LEVEL TANK				
J	Supply, deliver and assemble a Low level water tank, made of pressed steel sectional tank plates 6mm thick plates (type 1 and 2) and of size 1000mm x 1000mm capacity of tank to be approx. 108,000 litres and of preferred dimensions 6000mm x 6000mm x 3000mm high. The tank to come complete with tank cover, mosquito proof inspection vent, internal stays, jointing material, bolts and nuts including applying two coats of non-toxic bituminous paint on the inside and two coats of aluminum paint on the outside. The tank shall be complete with the following pipe connections:- -100mm diameter overflow - 65mm diameter outlets -50mm diameter inlet (2No) -100mm diameter washout with gate valve		ITEM		
K	Float switch regulator	1	NO		
L	Water level indicator	1	NO		
M	Internal ladder	1	NO		
N	External ladder from tank platform	1	NO		
O	50mm diameter high pressure ball valve	1	NO		
P	100 x 10mm capping flat steel plate on all dwarf walls	1	NO		
	Sub Total carried to summary				

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ITEM	DESCRIPTION	QTY	UNIT	RATE (KSHS)	AMOUNT (KSHS)
A	BOOSTER PUMPS Set of automatic electrically driven twin booster pump. One duty and the other one standby with automatic changeover, capable of delivering 5m ³ per hour against a head of 30 meters with a three phase power source. It includes pressure switches, time delay switch, a switch to protect against dry run, timer, gate valves and non-return valves. The pump to be as GRUNDFOS MODEL CR – 10-4 or approved equivalent. Pump to be installed on mild steel platform.	1	Set		
B	Control Panel Control panel for above pumps with contactors, over voltage and under voltage protection relays, MCBs, timer, start/stop push buttons, internal buttons with automatic changeover, 'running' and 'trip' neon lights control system and button for for change from automatic to manual operation. All these shall be housed in a lockable cabinet (with integral isolator) made from SWG 18 mild steel sheet that is oven powder coated . There shall also be an adjustable time delay switch to ensure pumping cycles are controlled to not more than 6 per hour, cables, low level cut-out switch in low level tank and regulator. Each pump should run for twelve hours per day.	1	ITEM		
C	Electrical Works Allow for electrical works wiring and fitting to pumps, control panel and float switches from isolator provided by others	1	ITEM		
D	ASSOCIATED PIPEWORK Supply, deliver and install galvanized mild steel pipes to BS 1387 class 'B' with screwed and socketed joints to BS 134 and 1256 and of approved manufacturer with galvanizing to BS 729. Tenderers must allow in their pipe work prices for all the couplings, unions, connectors joints, holder bats, reducers etc. as required in the running length of the pipework and also where necessary for pipe fixing clips, plugged and screwed	1			
E	100mm diameter G.M.S pipe	30	LM		
F	65mm ditto	30	LM		
G	Gate Valve 100mm diameter approved rising stem full way high pressure flanged gate valve with wheel and jointing to tubing	4	NO		
H	80mm ditto	2	NO		
I	65mm ditto	3	NO		
J	50mm ditto	4	NO		
K	Sluice Valve 100mm diameter Sluice Valve	1	NO		
L	75mm diameter Sluice Valve	1	NO		
M	50mm diameter Sluice Valve	2	NO		
	Sub Total carried to summary				

WATER TANKS KIRINYAGA

ITEM	DESCRIPTION	QTY	UNIT	RATE (KSHS)	AMOUNT (KSHS)
A	Non Return Valve 100mm diameter approved high pressure non- return valve to BS 1952. The non-return valve to be as "Pegler" or approved equivalent.	2	NO		
B	50mm ditto	2	NO		
	Tees				
C	100mm diameter equal tee	1	NO		
D	65mm ditto	1	NO		
E	50mm ditto	2	NO		
	Bends/Elbows				
F	100mm diameter bend/elbows	2	NO		
G	65mm ditto	3	NO		
H	50mm ditto	4	NO		
I	100mm diameter connecting flange	2	NO		
	Valve Chamber				
J	Valve chamber size 750 x 750 x 600mm deep with 100mm concrete (1: 3: 6) base 100mm block sides rendered all round in cement and sand (1:4) and with approved hinged and flanged cast iron cover and frame including all necessary excavation, disposal and form work.	2	NO		
K	Allow for construction of reinforced concrete ground tank platform, support and all other associated civil works for both elevated tank and ground tank	1	ITEM		
L	Allow for PPR piping to the various inlets to the building complete with gate valves at the points	1	ITEM		
M	Allow for both tanks with clean water including testing and commissioning for the entire works	1	ITEM		
N	Allow for Kshs 250,000 for project supervision		ITEM		250,000
O	Allow Kshs 300,000 as contingencies		ITEM		300,000
	Sub Total carried to summary				

SUMMARY					
TOTAL GENERAL PRELIMINARIES					
TOTAL PARTICULAR PRELIMINARIES					
SUB TOTAL FROM PG 1					
SUB TOTAL FROM PG 2					
SUB TOTAL FROM PG 3					
GRAND TOTAL FOR THE WORKS INCLUSIVE OF TAXES					
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Stamp.....					
.....					
Sub Contract Period.....					
Signature: Date:					
.....					
Pin No..... VAT Certificate:					
Witness: Date:					
Signature: Address:					