

	<b>COUNTY</b>	<b>NAKURU</b>		
	<b>CONSTITUENCY</b>	<b>SUBUKIA</b>		
	<b>SUB-COUNTY</b>	<b>SUBUKIA</b>		
	<b>WARD</b>	<b>KABAZI</b>		
	<b>PROJECT</b>	<b>JUMUIYA WATER PROJECT</b>		
	<b>SUBJECT</b>	INSTALLATION OF SOLAR PANEL, MACHINES AND PUMPS		
	<b>BILL NO 1</b>			
<b>1.00</b>	<b>GRUDFOS PUMP WITH ACCESSORIES INSTALLATIONS</b>			
1.01	Grundfos SP-5A-44 c/w 4kw motor with cable	Nr	1	
1.02	Installation accessories	Nr	1	
1.03	Solar accessories	Nr	1	
1.04	Installation labour and transport	Nr	1	
	<b>TOTAL FOR BILL NO 1 TAKEN TO SUMMARY PAGE</b>			
	<b>BILL NO 2</b>			
	<b>100m<sup>3</sup> MASONRY STORAGE TANK</b>			
<b>2.00</b>	<b>GENERAL ITEMS</b>			
2.01	Establishment of sign board as directed.	Nr	1	
2.02	Testing and commissioning of the works including labelling, plaque etc as directed	Nr	1	
	<b>Sub-Total</b>			
<b>2.10</b>	<b>100m<sup>3</sup> TANK CONSTRUCTION</b>			
<b>2.12</b>	<b>SETTING OUT AND EARTH WORKS</b>			
2.13	General site clearance and setting out	m <sup>2</sup>	64	
2.14	Excavate oversite 200mm to remove vegetable soil and remove from site.	m <sup>3</sup>	8	
2.15	Excavate pit foundation to a depth n.e. 1m.	m <sup>3</sup>	24	
	<b>Sub-Total</b>			
<b>2.20</b>	<b>TANK CONSTRUCTION</b>			
2.21	Supply materials, transport to site, fill and compact 300mm thick approved hardcore materials on tank foundation base.	m <sup>3</sup>	21.0	
2.22	Ditto 50 mm thick blinding layer.	m <sup>2</sup>	2.5	
2.23	Supply, transport, cut, bend and fix Y-10 bars in floor slab @ 150mm c/c.	Kg	678.7	
2.24	Supply materials, transport, place and compact concrete class 20 in tank slab floor.	m <sup>3</sup>	7.4	
2.25	Supply materials and construct 225mm circular masonry wall	m <sup>2</sup>	77.2	
2.26	Supply, transport, cut, bend and fix Y-10 bars in wall.	kg	623.2	
2.27	Supply materials and construct formwork to roof slab and collumn.	m <sup>2</sup>	62.7	
2.28	Supply, transport, cut, bend and fix Y- 16 bars to collumn @ 200mm c/c	Kg	52.0	

2.29	Supply, transport, cut, bend and fix Y- 16 bars to beams @ 200mm c/c as directed	Kg	130.0		
2.30	Supply, transport, cut, bend and fix Y- 12 bars to roof slab @ 200mm c/c	Kg	466.3		
2.31	Supply, transport, materials and plaster the internal of the tank.	m <sup>2</sup>	85.0		
2.32	Supply material and place concrete class 20 to roof slab. Include fixing 18" x 24" (GAUGE 16)steel lockable manhole cover with frame.	m <sup>3</sup>	8.5		
2.33	Supply and fix 2.7m high ladder to the inside of the tank	No	1		
2.34	Supply 2.7m high ladder (movable)	No	1		
2.35	Supply and install 2½" float valve	No	1		
2.36	Apply bondex as per DRG	kg	50		
	<b>Sub-Total</b>				
	<b>2.40 Inlet</b>				
2.41	1½" GI bend	No.	2		
2.42	1½" dia 3.6m long G.I. pipe threaded both sides	No.	1		
2.43	1½" dia 0.5m long G.I. pipe threaded both sides	No.	1		
2.44	1½" dia G.I. pipe threaded both sides	No.	4		
	<b>2.50 Overflow</b>				
2.51	2" dia 1.0m long G.I. pipe threaded with hoppers welded	No.	1		
	<b>Sub-Total</b>				
	<b>2.60 Outlet</b>				
2.61	3" dia 3m long G.I. pipe threaded both sides	No.	1		
2.62	3" gate valve	No	3		
2.63	3" GI bend	No.	1		
2.64	3" flange	No.	1		
2.66	3" socket union	No.	2		
2.68	3" dia 0.5m long G.I. pipe threaded both sides	No.	2		
2.70	3" GI TEE	No.	1		
	<b>Sub-Total</b>				
	<b>2.80 Washout</b>				
2.81	3" dia 2m long G.I. pipe threaded both sides	No.	1		
2.82	3" dia 0.5m long G.I. pipe threaded both sides	No.	1		
2.83	3" gate valve	No	1		
2.84	3" GI bend	No.	1		
2.85	3" flange	No.	1		
	<b>Sub-Total</b>				

<b>2.90</b>	<b>Valve chamber</b>				
2.91	Supply materials to site and construct a standard manhole 1.0m x 1.0m x 1.0m internal measurement.	No	2		
	<b>Sub-Total</b>				
	<b>TOTAL FOR BILL NO 2 TAKEN TO SUMMARY PAGE</b>				
	<b>BILL NO 3</b>				
<b>3.00</b>	<b>Fencing</b>				
3.01	Excavate pits for reinforced cedar posts 200x200mm by 450mm deep 2.0m apart.	No	85		
3.02	Supply and erect at least 200x200mm in diameter by 3m long cedar posts as instructed on site.	No	85		
3.03	Fabricate and install a standard steel framed gate with lockable pedestrian door.	No	1		
3.04	Cover pits with mass concrete 1:4:8 to firmly elect cedar posts in place	M3	4.5		
3.05	Supply and tie to the concrete posts 4 strands of 16 gauge, at spacing of 300mm between barbed wire strands	m	594		
3.06	Supply chainlink wire size 6feet height and fix it on existing barbed wires	m	165		
	<b>TOTAL FOR BILL NO 3 TAKEN TO SUMMARY PAGE</b>				
	<b>BILL NO 4</b>				
<b>4.00</b>	<b>Design of pipeline/pipework</b>				
4.01	Design of the pipeline system with the proposed project, before laying	item	1		
	<b>TOTAL FOR BILL NO 4 TAKEN TO SUMMARY PAGE</b>				
	<b>SUMMARY PAGE</b>				
	BILL NO 1				
	BILL NO 2				
	BILL NO 3				
	BILL NO 4				
	<b>TOTAL</b>				
	Add 7% for Supervision and Monitoring				
	<b>TOTAL</b>				
	Add 16% VAT				
	<b>GRAND TOTAL</b>				