

Booster Pumps Installations and Water Reticulation Works For The Proposed County Assembly Office Block:

ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
A	<p><u>SPECIFICATIONS AND BILLS OF QUANTITIES FOR BOOSTER PUMPS INTALLATIONS AND GENERAL WATER RETICULATION SYSTEM TO THE PROPOSED CONSTRUCTION AND COMPLETION OF 1NO. OFFICE BLOCK FOR THE KILIFI COUNTY ASSEMBLY:</u></p> <p><u>ELEMENT NO.1:</u></p> <p><u>BOOSTER PUMPS INSTALLATIONS:</u></p> <p><u>Hose Reel Booster Pump Sets:</u> Booster Pump Sets for Hose Reels mounted on a common Mild Steel base Frame and to approval,One pump duty, One pump stand by, each of capacity 10m³/hr against a Maximum Head of 25(metres) MODEL DAYLIFE (DE32/16) or equal and approved. The pump set shall be complete with control panel, MCBS, Pressure and Float switches, Overload protection, ON/OFF Buttons, Indicator Lights, Non -Return and Gate valves and a Pressure Vessel of Approx Capacity 60 Litres as VAREM or equal and approved including all other accessories for proper fuctioning. The pumps shall be connected in that when the Running Duty pump fails the Standby Pump starts up automatically.</p>	1	ITEM		
B	<p><u>Booster Pump Sets For Roof Top Water Storage Tanks.</u> Booster Pump Sets for Roof Top Tanks mounted on a suitable Mild Steel Base Frame and to approval, One Pump duty, One Pump Stand by ,each of Capacity 20m³/hr against a Maximum head of 30(metres) MODEL DAYLIFE (DE32/20) or equal and approved. The pump set shall be complete with control panel MCBS pressure and float switches overload protection, ON/OFF buttons, indicator lights non - return and gate valves and a pressure vessel of approx capacity 60 litres as VAREM or equal and approved including all other accessories for proper fuctioning. The pumps shall be connected in that when the Running Duty Pump fails the Standby Pump starts up automatically.</p>	1	ITEM		
C	<p><u>Booster pump sets for Fire Hydrants.</u> DAYLIFE FLA fully packanged booster pump set for fire Hydrants MODEL DAYLIFE (FLA 120) Parallel Duty 100m³/hr single duty 50m³/hr, Diesel and Electric pump Sizes E50 - 26 and E50 - 20 ,respectively including DB 4 - 60 horizontal multi stage JOCKEY centrifugal pump fitted with one 1.0KW Electric Motor. The pump shall also comprise of an intergrally mounted control panel and other pump accessories incorporating incoming mains isolator and MCB, Voltage Control relay, MCB and star - Delta starter for the main Pump, MCB and DOL starter for the jockey pump, pump run/trip/ no water indicators, 12 Volt DC power circuit for the engine gate and non return valves DC battery charging system and 300 Litre Vertical Pressure Vessel as VAREM or equal and approved.</p>	1	ITEM		-

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TOTAL CARRIED TO COLLECTION PAGE (1)					-
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>ELEMENT NO.1 CONT'D:</u>				
	<u>Pump Suction & Discharge Lines(All Provisional)</u>				
	<u>Pump Suction Lines</u>				
A	50mm diameter medium grade (G.I) Suction lines	24	LM		
B	100mm diameter ditto	12	LM		
	<u>Pump Delivery Lines</u>				
C	50mm diameter medium grade (G.I) Discharge lines	60	LM		
	<u>Extra over (G.I) tubing for Pump manifolds and above described pipework:-</u>				
D	50mm diameter (G.I) elbow/bend	2	No.		
E	65mm ditto	2	No.		
F	100mm ditto	4	No.		
G	50mm diameter equal tee	26	No.		
H	65mm ditto	3	No.		
I	100mm diameter bend	1	No.		
J	100mm diameter (G.I) socket	1	No.		
K	100mm diameter (G.I) nipple	1	No.		

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	TOTAL CARRIED TO COLLECTION PAGE (2)				
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>ELEMENT NO.2:</u>				
	<u>WATER RETICULATION(ALL PROVISIONAL):</u>				
	<u>Excavations</u>				
A	Excavate trench in soil/murram for Water Mains supply pipe not exceeding 1200mm deep ,lay pipe,part return in,fill ram and surplus cart away	156	LM		
	<u>Pipe Work</u>				
B	25mm diameter (PN-20) PPR Riser in wall chase and distribution pipework to overhead and roof terrace water tanks	60	LM		
C	32mm ditto	32	LM		
D	40mm ditto	24	LM		
E	50mm ditto	24	LM		
F	32mm diameter (PN-20) PPR Pipe laid and jointed in trench	48	LM		
G	40mm ditto	60	LM		
H	50mm ditto	48	LM		
	<u>Extra Overtubing for:</u>				
	<u>Sockets:</u>				
I	25mm diameter PPR Sockets	16	No.		
J	32mm ditto	21	No.		
K	40mm ditto	22	No.		
L	50mm ditto	19	No.		
	<u>Bends</u>				
M	25mm diameter bend/Elbow	10	No.		
N	32mm ditto	2	No.		
O	40mm ditto	4	No		
P	50mm ditto	3	No.		
	<u>Tees:</u>				
Q	25mm diameter equal tee	2	No.		
R	32mm ditto	2	No.		
S	40mm ditto	4	No		
T	50mm ditto	3	No.		

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	TOTAL CARRIED TO COLLECTION PAGE (3)				
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>ELEMENT NO.2 CONT'D:</u>				
	<u>Valves:</u>				
A	75mm diameter supply mains full way gate valve as PEGLAR or equal	1	No.		
	<u>Water connection and Testing</u>				
B	100mm diameter mechanical joint	2	No.		
C	100x100x100mm (G.I) equal tee	1	No.		
D	100mm diameter (G.I) socket	1	No.		
E	100mm diameter (G.I) Nipple	1	No.		
F	100mm x 75mm diameter (G.I) Reducer	1	No.		
G	100mm diameter PPR-M Adapter	1	No.		
H	100x50mm Ddiameter PPR Reducer	1	No.		
	<u>Stand Pipe</u>				
I	15mm diameter bib tap suitable for connecting to a hose pipe complete with threaded adaptors.The tap to be complete with 5-metre long 20mm diameter pipe,bends,e.t.c.The chrome plated bib tap to be as 'cobra' Ref.107EC taps or other approved equivalent	5	ITEM		
	<u>Mains Valve Pit</u>				
J	Construct Mains Valve Pit size 600x600x500mm deep with 100mm thick concrete block rendered all round in cement and sand mortar (1;4) including hinged iron cover amd frame in grease	1	ITEM		
	<u>Hydrant Chamber</u>				
K	Construct Hydrant Chamber approx. size 1200x1200x750mm deep with100mm concrete block wall rendered all round in cement nd sand (1;4) including supply and fixing of 600x450mm mild steel iron cover and frame in grease	5	ITEM		
	<u>External Fire Hydrants</u>				
L	100x65mm diameter screw down(Type 2 B.S.750) underground Fire Hydrant Set complete with 65mm diameter landing valve,Branched Stand pipe,Key and Bar,all to the manufacturers specifications and to approved catalogue.The hydrant shall also comprise of 100mm diameter G.I.Nipple,100x6mm thick mild steel flange welded to the water supply line below described (M/S)	5	ITEM		

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	TOTAL CARRIED TO COLLECTION PAGE (4)				
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>ELEMENT NO.2 CONT'D:</u>				
	<u>Fire Hydrants Water Supply</u>				
A	100mm diameter G.I. Medium grade supply pipe to the above Hydrants	96	LM		
	<u>Extra over (G.I) tubing for:-</u>				
B	100mm diameter equal tee	4	No.		
C	100mm diameter bend	4	No.		
D	100mm diameter (G.I) socket	25	No.		
E	100mm diameter (G.I) nipple	5	No.		
	<u>Painting</u>				
F	Allow for priming with suitable anti rust oil paint and to approval on the general surfaces of the above described (G.I) pipework before laying in trenches	1	ITEM		
	<u>Testing</u>				
G	Allow for connecting the above earlier described Booster pumps to the pump delivery and suction lines, including Test Pumping and testing the whole of the water Reticulation system both during progress and at commissioning to leave in sound working condition and to the Engineer's satisfaction	3	ITEM		

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	TOTAL CARRIED TO COLLECTION PAGE (5)				
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>ELEMENT NO.3:</u>				
	<u>PROVISIONAL SUMS:</u>				
	<u>The following Provisional Sums to be measured on completion and priced in accordance with the rates contained in these Bills of Quantities or prorata thereto or deducted in whole if not required.</u>				
A	Provide a Provisional Sum of Kenya Shillings One Hundred and Fifty Thousand (Kshs. 150,000.00) only for Engineers Supervision and Contract Administration Expenses	1	ITEM	150000	150,000.00
B	Provide a Provisional Sum of Kenya Shillings Five Hundred Thousand (Kshs.500,000.00) only for Contigencies	1	ITEM	500000	500,000.00

Booster Pumps Installations and Water Reticulation Works For The Proposed County Assembly Office Block:

	TOTAL PROVISIONAL SUMS CARRIED TO COLLECTION.....(6)				650,000.00
ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)
	<u>MAIN SUMMARY PAGE:</u>				
	PRELIMINARIES BROUGHT FORWARD PAGE.....			G-6	
	TOTALS BROUGHT FORWARD FROM.....			PG(1)	
	TOTALS BROUGHT FORWARD FROM.....			PG(2)	
	TOTALS BROUGHT FORWARD FROM.....			PG(3)	
	TOTALS BROUGHT FORWARD FROM.....			PG(4)	
	TOTALS BROUGHT FORWARD FROM.....			PG(5)	
	PROVISIONAL SUMS BROUGHT FORWARD FROM			PG(6)	650,000.00
	SUBTOTALS.....				
	ADD 16% V.A.T				
	GRAND TOTAL.....				
	AMOUNT OF TENDER SUM IN WORDS KENYA SHILLINGS				
	NAME AND ADDRESS OF CONTRACTORS.....				
	DATE:.....SIGNATURE:.....				
	NAME AND ADDRESS OF WITNESS.....				
	DATE:.....SIGNATURE:.....				

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ITEM NO.	DESCRIPTION	QTY	UNIT	RATE	TOTAL (KSH.)	
	<u>(SUMMARY OF COLLECTION)</u>					
	PRELIMINARIES B/F FROM PAGE G-6.....				1,000,000.00	
	CARRIED TO COLLECTION	PG (1)			#BEZUG!	
	" " "	" (2)			#BEZUG!	
	" " "	" (3)			#BEZUG!	
	" " "	" (4)			#BEZUG!	
	" " "	" (5)			#BEZUG!	
	" " "	" (6)			#BEZUG!	
	" " "	" (7)			#BEZUG!	
	" " "	" (8)			#BEZUG!	
	" " "	" (9)			#BEZUG!	
	" " "	" (10)			#BEZUG!	
	" " "	" (11)			#BEZUG!	
	" " "	" (12)			#BEZUG!	
	" " "	" (13)			#BEZUG!	
	PROVISIONAL SUMS					#BEZUG!
	SUB-TOTAL					#BEZUG!
	ADD 16% V.A.T					
	GRAND TOTAL COLLECTION TO FORM OF TENDER					#BEZUG!
	TOTAL TENDER SUM IN WORDS					

NAME AND ADDRESS OF CONTRACTOR						
DATE:.....SIGNATURE						
NAME AND ADDRESS OF WITNESS						
DATE.....SIGNATURE						

