Item	L OF QUANTITIES FOR THE PROPOSED DISTRIBUTION OF YARDIE: The rates entered shall include, third party fees, levies, in	put costs	s labour and	contractor's over	cheads and profite
The same of the sa	L liem Description	Unit	Quantity	Unit Rate	Amount
BILL 1:	PRELIMINARY & GENERAL ITEMS	- Citi	Quantity	Onit Rate	Amount
1.1	Publicity Sign Board				
1.1	Fabricate erect and maintain public sign post, well supported to detail as provided in the drawing and as instructed by the project manager.	No	1		
1.2	Mobilization and Demobilization	2,410			
	Mobilize to site and demobilize. Provide equipment				
1.21	including but fusion, personal protective equipment, materials and personnel necessary for the due and satisfactory completion of the works, provision of security and shall remove same on completion	Item	1		
1.3	Setting Out			-	
1.31	Allow a provisional sum of Kshs. 40,000.00 for setting out of the pipeline and water points in presence of clients Supervising Engineer	L/Sum	1	40,000.00	40,000.0
1.32	E.o bill 1.31 for profits and overheads	%	15		-
	Total carried from Bill 1 to Main summary				
Sec. 15					
BILL 2	RISING MAIN PIPELINE				
	CLASS D: DEMOLITION AND SITE CLEARANCE	-	=		
	The rate quoted is for site clearance and demolition along construction wayleave. Rate shall be deemed to include removal of the material, natural and artificial articles, objects and obstructions which are above the original surface and carting away to tips, identified by the contractor in liaison with the Local Authority				
	General clearence				
2.01	Site clear and excavate to pipe invert level 600 mm n.e 1m below existing ground level and backfill/ reinstate to original ground level after testing pipeline, all to the approval of the engineer	m	2000		
	CLASS I: PIPEWORK - PIPES				
	The rate quoted is for supply and transport to site storage, transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water.				
2.02	PN20 DN90mm HDPE PE100 ISO4427	m	400		
THE STATE OF THE S	PN16 DN90mm HDPE PE100 ISO4428	m	600		
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	PN12.5 DN90mm HDPE PE100 ISO4427	m	950		
2.05	Class B GI pipes DN 75mm with sockets	m	6		
2.06	Allow for electrofusion/ butfusion of the pipes and fittings.  Connectors and adaptors NOT PERMITTED in the rising	Joints	38		
2.06	main pipeline				
2.06	main pipeline	GOVER	NMENT OF M	AKUENI COUNTYI	
2.06		GOVER	NIMENT OF M	AKUENI COUNTY	

2.06	Item Description	Unit	Quantity	Unit Rate	Amount
2.06	OD 90mm plain ended, 22.50° and 90°	nr	4	onit ranc	Amount
	Junctions and branches				
2.07	OD 90x63mm plain ended tee to be fused, with flanged branch and valves and all the necessary accessories for airvalves and washouts	nr	6		
94				100	
	Airvalves				
2.08	Supply and install DN50mm anti-shock/ anti-surge double- orifice Air Valves as per the attached technical specifications with flanged base	nr	4		
-	All Plane of Ch.				
	All Flanged Sluice Valves				
2.09	Supply and install DN50 PN16 flanged Sluice valves for line valves and Washo Outs	nr	2		
2.1	DN80mm Flanged Bulk Water Meter, Wesan or equivalent approved	nr	ĺ		
7 71	CLASS K: PIPEWORK -	-			
	MANHOLES AND PIPEWORK ANCILLARIES				
	The rate quoted is for chambers, culverts, crossings and	-	-		
	reinstatements and other ancilleries as specified.				
	Air Valve/Washout/Sluice Valve Chambers		*	-	
2.1	Construct 1000mm by 1000mm masonary valve chamber. Depth not exceeding 2m, all in accordance with details shown on drawings. Include for provision and fixing of cast iron step irons and heavy duty rectangular mild steel frame as per details on drawing	nr	7		
	Marker Posts				
	Construct concrete marker posts and install along the water supply pipeline, all in accordance with details shown on drawings. (Reinforced concrete 1:2:4(class 20/20, bars D12), as per details on drawing				
2.11	Pipeline marker post inscribed WL	nr	7		
2.12	Air valve marker post Inscribed AV	nr	4		
2.13	Washout marker post inscribed WO	nr	2		
2.14	Sluice Valve marker post inscribed SV	nr	i		
. 2	CLASS L: PIPEWORK - ANCILLARIES TO LAYING AND EXCAVATION				
	Extras to excavation and backfilling in pipe trenches				
2.15	Excavation in rock Class A	<sub>m</sub> 3	3		
2.16	-Ditto- but rock Class B	<sub>m</sub> 3	3		
2.17	-Ditto- but rock Class C	<sub>m</sub> 3	3		
	Note:- Blasting is NOT permitted				
	Class L; PIPEWORK - SUPPORTS AND PROTECTIO N, ANCILLIARIES TO LAYING AND EXCAVATION				
2.18	Construct concrete stools for fitting and thrust blocks and anchor blocks to all bends along the water supply pipeline, all in accordance with details shown on drawings Thrust blocks - RC, Volume 0.2 - 0.5m3	nr	10	VIENI COLLEGE	
2.19	Concrete surround to pipe at directed sections	m	50	KUENI COUNTY	
	Amount for Rising Main Pipeline Carried to Summary		2 9 AUG 7	free.	

Item	Item Description	Unit	Quantity	Unit Rate	Amount
LL 3	WATER POINTS				
LL 3	2M x 2M STD Ministry Water Kiosk				
3.1	SUB - STRUCTURE				
3.101	Excavate to remove veg. Soil average 200mm thick	<sub>m</sub> 2	21		
3.102	Excavate foundation trenches n.e 1.5M deep	<sub>m</sub> 3	7.5		
3.103	Return fill in and ram	m <sup>3</sup>	2		
3.104	Load and cart away surplus excavated material	m3	2		
3.105	50mm thick 1:3:6 mix foundation blinding	State of Contract of the Contr	5.5		
3.106		m2	2		
3.106	1:2:4 mix reinforced concrete in strip foundations, columns	m3	2		
3.107	300mm thick hardcore filling	<sub>m</sub> 3	1.5		
3.108	50mm thick murram blinding	<sub>m</sub> 2	12		
3.109	Anti-termite treatment	<sub>m</sub> 2	12		
3.110	50mm thick 1:3:6 concrete blinding	<sub>m</sub> 2	5.5		
3.111	1:2:4 reinforced concrete floor slab 100mm thk	<sub>m</sub> 3	1		
3.112	Weld mesh no. A145	<sub>m</sub> 2	5.5		
3.113	D12 reinforcement to foundation base and column starters	kg	70		
3.114	D8 reinforcement to foundation strip	kg	30		
3.115	200mm x 25mm softwood sawn formwork to side of slab	m	10		
3.116	150mm thick quarry stone foundation walling laid in cement/ sand mortar 1:3	<sub>m</sub> 2	8		
3.200	WALLING	Charles .			
3.201	1:2:4 mix reinforced ring beam 150mm Thk	ltem	L/Sum		
3,202	150mm thick compresed stablized interlocking machine cut stone walling	<sub>m</sub> 2	20		
3.203	200 x 25mm soft wood sawn timber formwork to sides of lintol	m	8		
3.204	D12mm diameter RC bars to column bases/footing and columns	kg	90		
3.205	D8mm diameter RC bars to column rings	kg	10	ter, and the second second	
3.206	1:2:4 mix RC to 4No. 225mm x 225mm column and footings	<sub>m</sub> 3	1		
3.300	ROOFING		-		
3.301	200 x 25mm soft wood sawn timber formwork for roof slab.	<sub>m</sub> 2	7		
3.303	100 x 25mm soft wood sawn timber formwork to sides of roof slab	ın	10		
3.304	1:2:4 mix reinforced concrete to roof slab - 125mm T.H.L	<sub>m</sub> 3			
3.305	D8 RC bars @150mm c/c to 125mm thick roof slab	kg	27		
	DOORS				
3.400	DOORS Fix standard steel purpose made door size 900 x 2000mm	nr	1		
3.401	Fix standard steel purpose made door size 500 x 2000mm				
3.500	WINDOWS & VENTILATION				
3.501	Fix standard steel casement purpose made window size 950 x 1000mm	nr	ı		
3,502	50mm thick precast concrete window sill all sides 1000 x 300mm throated/weartherd on the outside	Item	1		
3.503	Supply 150mm concreter louvre blocks and place in 1:3 cement/sand for 600mm x 300mm vent in wall as shall be directed.	Item	1 6	OVERNMENT OF A	AKUENI COUNTY

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Item	Item Description	Unit	Quantity	Unit Rate	Amount
.600	FINISHES				
3.601	12mm thick internal plaster	- 0			
3.602	12mm thick external plaster	<sub>m</sub> 2	19		
3.603	25mm thick cement/ sand screed	<sub>m</sub> 2	22		
0.000	2010th thick cement/ sand screed	<sub>m</sub> 2	12		
3.700	PAINTING				
3.701	Prepare and apply 3 coats gloss oil paint to wall surfaces externally	<sub>m</sub> 2	22		
3.702	Ditto but to walls internally	<sub>m</sub> 2	19		
3.703	Ditto but to wood surfaces	<sub>m</sub> 2	4		
3.800	PLUMBING				
3.801	20mm dia Gl pipe M.G.	Pcs	2		
3.802	13mm dia GI pipe M.G.	Pes	2		
3.803	20mm dia Bend	nr	4		
3.804	20mm dia Nipples	nr	4		
3.805	20mm dia Union	nr	4		
3.806	20mm dia Socket	nr	3		
3.807	20 x 13mm dia reducing tee	nr	2		
3.808	20mm dia water meter	nr	1		
3.809	20mm diameter Gate Valve (Peglar)	nr	i		
3.810	13mm dia Bend	nr	8		
3.811	13mm dia stop cock	nr	4		
3.900	WATER TANK				
3.901	Supply and installation of a 5m <sup>3</sup> plastic tank on roof of water kiosk. Cost include installation of float valve, and 40mm PPR/GI outlet plumbing works	sum	1		
	Amount for 1 No. Water Kiosk and Tank				
	Amount for 3 No. Water Kiosks and Tanks (Sub Total 3.1)				
	Rehabilitation of the Exisiting Kwa Mulandi Water Point				
etasov ranja svoji omijio	Allow for preparation and civil work repairs including making good	L/ Sum	1		
3.700 3.701	PAINTING Prepare and apply 3 coats gloss oil paint to wall surfaces	<sub>m</sub> 2	22		
	externally				
3.702	Ditto but to walls internally	<sub>m</sub> 2	19		
3.703	Ditto but to wood surfaces	<sub>m</sub> 2	4		
	DELIMINATION				
3.800	PLUMBING  Figure M.C.	Pes	2		
3.801	20mm dia GI pipe M.G.	Pes	2		
3.802	13mm dia GI pipe M.G.	nr	4		
3,803	20mm dia Bend		4		
3.804	20mm dia Nipples	nr			
3.805	20mm dia Union	nr	4		
3.806	20mm dia Socket	nr	3		
3.807	20 x 13mm dia reducing tee	nr	2		to the second second
3.808	20mm dia water meter	nr	1		
3.809	20mm diameter Gate Valve (Peglar)	nr	1	12.25	
3.810	13mm dia Bend	nr	8	GOVERNA	ENT LIF HINKUENI C
3.811	13mm dia stop cock	nr	4		WAS ELVI C
0.011	Amount for rehabilitation of Water Kiosk (Sub Total 3.2)	1-2-11/06/0	No. of Contract of		
	Amount for renaphilation of the fact that the				9 AUG 202

em	Item Description	Unit	Quantity	Unit Rate	Amount
	ANIMAL TROUGH				-
	Provide materials to construct 5mx1mx0.35m animal trough	I / Sum			-
	as per the provided drawing	L/ Suiti	1		
The second second	Amount For Animal Trough (Sub Total 3)	-	-		The State of the S
7	randam for Annual Hough (Sub Iolai 5)				
	Amount for Water Points carried To Summary (Sub Totals 1+2+3)				
L 4	100M <sup>3</sup> STD MASONRY TANK				
n	Description	Unit	Qty	Rate	Amount
	- Control of the cont			(Ksh)	(Kshs)
4	GENERAL:				
	Allow for setting out and testing of the tank in presence of client representative	No	1		
	EXCAVATIONS	-			
4.01	Strip top soil 200mm from g.l. over area of tank and remove all vegetable soil to temporary spoil heap.	m³	60		
4.02	Excavate from stripped level over the tank site to depth n.e. 1.5m deep and dispose soil as directed	m³	90		
4.03	Excavate pit commencing 1.50m from stripped level but not exceeding 3.0m deep and dispose as directed soil as directed	m³	90		
4.04	Extra over items 3 for excavating in rock Rate to include making good)	m³	4		
4.05	Allow for backfilling to approve levels after Completion of the works.	m³	60		
4.06	Allow for keeping all excavation free from general waters	item	1		
4.07	Allow for planking and strutting of the pit	item	1		
4.08	Provide, place and compact hardcore of approved quality 300 mm thick to make up levels.	m <sup>3</sup>	15		
4.09	Provide blinding conc class 15 in 50mm thickness to surface of hardcore.	m <sup>2</sup>	50		
	CONCRETE WORK				
	Provide place, handle, mix and vibrate as directed by the Engineer				
4.10	Vibrated reinforced concrete mix 1:2:4 in 125mm thick for	m³	8		
4.11	Vibrated reinforced concrete mix 1:2:4 mix in 100mm thick	m³	7.5		
4.12		m <sup>3</sup>	0,1		
4.13		m <sup>3</sup>	0.1		
4.14	Ditto centre Column	m³	0.24		
4.15	Vibrated mass concrete 250mm thick surrounded to off take	m <sup>3</sup>	0.3		
-	REINFORCEMENT BARS				
	Provided handle, cut, bend and fix the following reinforcement bars as stated in the bending schedule or as directed by the Engineer				
4,10		Kg			
4.1		Kg		GOVERNMEN	T. MAKUENI COUNT
4.13		Kg			MOEITI COUNT
4.1		Kg	500		AUG 2024

	Item Description	Unit	Quantity	Unit Rate	Amount
-	FORMWORK	Alternation			Antiowan
			X25214	10.776	
	Sawn timber formwork as per engineer's Specification. Include propping strutting and striking off to:				
4.20	Edges of 125mm ring				
4.21	Edges of 100mm roof slab	m	37		
4.22	Sofift of 100mm roof slab	m	19		
4.23	Edge of the moule le	m²	34		
4.24	Edge of the manhole opening	m	16		
	Sofift of roof slab on the external side	m²	13		
	WALLING				
4.25	300mm thick dressed quarry stone walling curved on plan radius 8500mm	m²	28		
4.26	225 thick dressed quarry stone walling curved on plan radius 8500mm	m²	50		7.4
4.27	Provide, handle and fix bondex as per drawing			The state of the s	
		Kg	17		
	BITUMEN PAINT				
4.28	Floor slab 300mm wide long circumference with mean				100000000000000000000000000000000000000
	radius of 8500mm in three coats	m	18		
4.29	Top of 300mm thick wall along circumference with mean radius of 8500mm in three coats	m	18		
Administration of the second	Provide all materials and apply finishes as decribed below			P. 654 ER. P	
4.30	25 mm thick water proof screed 1:2 cement/sand ratio	m <sup>2</sup>	40		
4.31	10 mm thick plaster using 1:2 cement sand ratio to inside roof slab	m <sup>2</sup>	40		
4.32	Two layers of 10 mm thk water proof plaster 1:2 cement sand ratio to inside walls.	m²	56		
4.33	20 mm thick 1:2 cement sand plaster to exterior face of tank wall.	m²	59		
4.34	Prepare and apply 3 coats gloss oil paint to wall surfaces externally as shall be directed	m <sup>2</sup>	78		
4.35	Ditto but to metal surfaces	m <sup>2</sup>	6		
4.36	Branding the tank as shall be directed	L/ Sum			
	S with the same of	Li Suitt			201
	Miscellaneous Works				
4.37	Vertical ladder of average length of 5 m using GI pipes 40 mm and 25 mm	nr	2		
4.38	600x600 mm lockable CI manhole cover and frame	nr			
4.39	100 mm dia GI elbows to air vents as pe drawings.	nr	4		
4.4	100 mm dia. GI pipes 400 mm long threaded at one end	nr	2		
4.41	100 mm GI nipples	nr	2	-	
4.42	Mosquito gauze over vent of an approved quality complete with mild steel security strip to vent air.	nr	2		
4.43	32 mm GWL short length GI pipe cast in-situ for GWL indicator.	m	0.8		
4.44	75 x 75 x 4mm angle line level indicator.	m	5		
	Provide all materials and construct valve chambers average size 1.25 mx 1.25 m x 1.2 m deep of blockwork with	-10			
4.45	lockable manhole cover. Rate to include for excavation and provision of locks and keys	nr	3	- 1	
4.46			and the second s	PERSONAL PROPERTY.	Service and Assess Statement
4.47	75 mm dia. flanged GI inflow pipe	m	6	GOVERNIMEN	IT OF MAKUENTO
4.48	75 mm dia. Flanged GI scour pipe	m	6		
4.49	100 mm GI overflow pipe	m	6		

Item	Item Description	Unit	Quantity	Unit Rate	Amount
4.5	75mm flanged GI offtake pipe, 2 sets	m	6		1
4.51	200 ACC 200 Sept. 100 Sept				
4.52	Pipe Fittings				
4.53	Provide, handle and fix the following pipe fittings as per				
4.54	specifications:				
4.55	Fabricated flanged Bellmouth 150 x 100 mm x 400mm long	nr	2		
4.56	75 mm dia 90 deg flanged GI Bend	nr	2		
4.57	75 mm dia sluice valve	nr	2		
4.58	75 mm dia 90 deg flanged GI bend	nr	4		
4.59	and the state of t				
4.6	Overflow Fittings				
4.61	75 mm GI socket	nr	2		
4.62	75 mm GI 90 deg bend	nr	2		
4.63					
4.64	Scour Fittings				
4.65	75 dia flange	nr	I		
4.66	75 dia 90 deg bend	nr	I		
4.67	75 dia GI nipple	nr	1		
4.68	75 dia Sluice valve	nr	1		
	Amount for STD Masonry Carried for Collection				
BILL 5	RETURN LINE				
tem	Description	Unit	Qty	Rate	Amount
	CLASS D: DEMOLITION AND SITE CLEARANCE				
	removal of the material, natural and artificial articles, objects and obstructions which are above the original surface and carting away to tips, identified by the contractor in liaison with the Local Authority				
	General elearence	M-tiolca			
5,01	Site clear and excavate to pipe invert level 600 mm n.e 1m below existing ground level and backfill/ reinstate to original ground level after testing pipeline, all to the approval of the engineer	m	3200		
	OLAGO L DIDENADRA DIDEO				
	CLASS I: PIPEWORK - PIPES			-	
	The rate quoted is for supply and transport to site storage, transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water.				
			3200	-	
5.02	PN10 DN63 mm HDPE PE100 ISO4427	m			
5.02 5.03	Class B GI pipes DN50 mm with sockets	m	42		
5.03	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors	m	42		
5.03	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors  CLASS J: PIPEWORK - FITTINGS AND VALVES	m	42		
5.03	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors	m	42		
5.03	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors  CLASS J: PIPEWORK - FITTINGS AND VALVES  The rate quoted is for provision and fixing  Bends	m	42		
5.03 5.04	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors  CLASS J: PIPEWORK - FITTINGS AND VALVES  The rate quoted is for provision and fixing  Bends	m	42	GOVERNING	
5.03	Class B GI pipes DN50 mm with sockets Allow for connectors and GI adaptors  CLASS J: PIPEWORK - FITTINGS AND VALVES  The rate quoted is for provision and fixing	m Joints	42 54	GOVERNME	VT : FINAKUENI COUN

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Item	Item Description	Unit	Quantity	Unit Rate	
5.06	OD 63x63x25mm female tee for complete with all the	Ont	Quantity	Unit Kate	Amount
	necessary accessories for airvalves and washouts	nr	6		
				-	
	Airvalves				
5.07	Supply and install DN25mm anti-shock/ anti-surge Air	C. Sales			
5.07	valves as per the attached technical specifications with	nr	4		
	flanged base		7		
	All Flanged Sluice Valves			CONTRACTOR OF THE PARTY OF THE	
5.08	Supply and install DN25 gate valves for Washo Outs	nr	2		
	Supply and install DN40 gate valves for Line Valves	nr	2		
	CLASS K: PIPEWORK -				
	MANHOLES AND PIPEWORK ANCILLARIES				
	The rate quoted is for chambers, culverts, crossings and				
da de	reinstatements and other ancilleries as specified.				
	Air Valve/Washout/Sluice Valve Chambers				-
	Construct 750mm by 750mm masonary valve chamber.				
	Depth not exceeding 2m, all in accordance with details		No.		
5.09	shown on drawings. Include for provision and fixing of cast	nr	6		
	from step irons and heavy duty rectangular mild steel frame		9		
	as per details on drawing				
	Marker Posts				
	Construct concrete marker posts and install along the				
	water supply pipeline, all in accordance with details				
	shown on drawings. (Reinforced concrete 1:2:4(class				
	20/20, bars D12), as per details on drawing				
5.10	Pipeline marker post inscribed WL	nr	15		
5.11	Air valve marker post Inscribed AV	nr	4		
5.12	Washout marker post inscribed WO	nr	2		
5.13	Sluice Valve marker post inscribed SV	nr	1	100000000000000000000000000000000000000	
	CLASS L: PIPEWORK - ANCILLARIES TO LAYING AND				
da a nace	EXCAVATION				ar man a south as an
	Extras to excavation and backfilling in pipe trenches				
5.14	Excavation in rock Class A	<sub>m</sub> 3	3		
5.15	-Ditto- but rock Class B	<sub>m</sub> 3	3		
5.16	-Ditto- but rock Class C	<sub>m</sub> 3	3		
	Note:- Blasting is NOT permitted				
					and the same of th
7.000	Class L; PIPEWORK - SUPPORTS AND PROTECTIO N,				
	ANCILLIARIES TO LAYING AND EXCAVATION				
	Country at assessment stools for fitting and thrust blocks and		179		
	Construct concrete stools for fitting and thrust blocks and anchor blocks to all bends along the water supply pipeline,				
5.17	all in accordance with details shown on drawings	nr	10		
	Thrust blocks - RC, Volume 0.2 - 0.5m3				
5.18	Concrete surround to pipe at directed sections	m	50		
	Provide Materials to construct STD One cubic meter Break				
5.19	Pressure Tank c/w plumbing works as per the provided	nr	1		
	drawing				
	Amount for Bill 3 carried to Summary				
				[PA	
Contraction of the last of the				GOVERNMENT	IF MAKUENI COU
		The second second			
BILL 6	MUSELELE LINE	Unit	Qty	Rate	Amount

em	Item Description	Unit	Quantity	Unit Rate	Amount
The state of the s	CLASS D: DEMOLITION AND SITE CLEARANCE			7.105	
	The rate quoted is for site clearance and demolition along construction wayleave. Rate shall be deemed to include removal of the material, natural and artificial articles, objects and obstructions which are above the original surface and carting away to tips, identified by the contractor in liaison with the Local Authority				
	General clearence				
3.01	Site clear and excavate to pipe invert level 600 mm n.e 1m below existing ground level and backfill/ reinstate to original ground level after testing pipeline, all to the approval of the engineer	m	1600		
	CLASS I: PIPEWORK - PIPES				
	CEROS I. THEWORK - TILES				
	The rate quoted is for supply and transport to site storage, transport from site storage, excavate, lay and joint pipes complete with all jointing materials and but fusing. The rate is deemed to include excavation, bed lining, installation and backfilling of the pipe trenches. keep trenches and ther excavations free of water.				
6.02	PN10 DN50 mm HDPE PE100 ISO4427		1600		
6.03	Class B GI pipes DN40 mm with sockets	m	42		
6.04	Allow for connectors and GI adaptors	Joints	36		
0.04	Allow for connectors and dradaptors	joins			
	CLASS J: PIPEWORK - FITTINGS AND VALVES		TO THE STATE OF TH		Wellstein
-	The rate quoted is for provision and fixing				
	Bends				
6.05	OD 63mm plain ended, 22.50° and 90°	nr	2		
	Junctions and branches	1	-		
	OD 50x50x25mm female tee for complete with all the	-			
6.06	necessary accessories for airvalves and washouts	nr	4	The second secon	
-	necessary accessories to an annual				
-	Airvalves				
6.07	Supply and install DN25mm anti-shock/ anti-surge Air Valves as per the attached technical specifications with flanged base	nr	3		
		-	-		
	Gate/ Sluice Valves Supply and install DN25 gate valves for Washo Outs	nr	2		71
6.08	Supply and install DN40 gate valves for Line Valves	nr	2		
-	VALUE OF THE PARTY				
-	CLASS K: PIPEWORK -				
	MANHOLES AND PIPEWORK ANCILLARIES		-		-
	The vate quoted is for chambers, culverts, crossings and				
and the same of the	reinstatements and other ancilleries as specified.				
	Air Valve/Washout/Sluice Valve Chambers				
6.09	Construct 750mm by 750mm masonary valve chamber. Depth not exceeding 2m, all in accordance with details shown on drawings. Include for provision and fixing of cast iron step irons and heavy duty rectangular mild steel frame as per details on drawing	nr	6	GOVERNIMENT	OF MAKUENI COU
			-	- Continue IV	THE MANUEL WILLIAM
	Marker Posts				

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Item	Item Description	Unit	Quantity	Unit Rate	Amount
	Construct concrete marker posts and install along the				
	water supply pipeline, all in accordance with details	91 91 13			
	shown on drawings. (Reinforced concrete 1:2:4(class	No.			
-	20/20, bars D12), as per details on drawing	1000			A Company of the Control
6.10	Pipeline marker post inscribed WL	nr	5		
6.11	Air valve marker post Inscribed AV	nr	3		
6.12	Washout marker post inscribed WO	nr	2		
6.13	Sluice Valve marker post inscribed SV	nr	2		
	CLASS L: PIPEWORK - ANCILLARIES TO LAYING AND EXCAVATION				
	Extras to excavation and backfilling in pipe trenches	TAID TO THE		AREA CONTRACTOR	
6.14	Excavation in rock Class A	<sub>m</sub> 3	2		
6.15	-Ditto- but rock Class B	<sub>m</sub> 3	2		
6.17	-Ditto- but rock Class C	m3	2		
	Note:- Blasting is NOT permitted	mı			
	Class L; PIPEWORK - SUPPORTS AND PROTECTIO N, ANCILLIARIES TO LAYING AND EXCAVATION				
	Construct concrete stools for fitting and thrust blocks and				
	anchor blocks to all bends along the water supply pipeline,				
6.18	all in accordance with details shown on drawings	nr	5		
	Thrust blocks - RC, Volume 0.2 - 0.5m3				
6.19	Concrete surround to pipe at directed sections		50		-
0.13	Amount for Bill 6 carried to Summary	m	30		
desir.	Antount for bin o carried to summary				
			State Control		
BILL 7	KWA SOO GRAVITY LINE	** **		<b>_</b>	
tem	Description CLASS D: DEMOLITION AND SITE CLEARANCE	Unit	Qty	Rate	Amount
-			Continue species		
	The rate quoted is for site clearance and demolition along construction wayleave. Rate shall be deemed to include				
	removal of the material, natural and artificial				
	articles, objects and obstructions which are above the	1 miles			
	original surface and carting away to tips, identified by the	A11	1000		
	contractor in liaison with the Local Authority				
	General clearence				
-	Site clear and excavate to pipe invert level 600 mm n.e 1m				
	below existing ground level and backfill/ reinstate to				
7.01	original ground level after testing pipeline, all to the	m	500		
	approval of the engineer	COLUMB !			
*					
	CLASS 1: PIPEWORK - PIPES				
	The rate quoted is for supply and transport to site storage,				
	transport from site storage, excavate, lay and joint pipes				
	complete with all jointing materials and but fusing. The rate				
	is deemed to include excavation, bed lining, installation and				
	backfilling of the pipe trenches, keep trenches and ther				
	excavations free of water.				
7.02	PN10 DN40 mm HDPE PE100 ISO4427	m	1600		
7.03	Class B GI pipes DN32 mm with sockets	m	12	GOVERNIE	is a
7.04	Allow for connectors and GI adaptors	Joints	28	LINIVI	ENT OF MARUENICO
					The state of the s
	CLASS J: PIPEWORK - FITTINGS AND VALVES	and the second			9 AUG 2024

ltem	Item Description	Unit	Quantity	Unit Rate	Amount
Charles de la company	The rate quoted is for provision and fixing Bends			A PART NAME OF THE OWNER.	No.
7.05					
7.05	OD 63mm plain ended, 22.50° and 90°	nr	2		Toronto.
	Junctions and branches				
7.06	OD 50x50x25mm female tee for complete with all the necessary accessories for airvalves and washouts	nr	2		
	Constant Con				
	Airvalves				
7.07	Supply and install DN25mm anti-shock/ anti-surge Air Valves as per the attached technical specifications with flanged base	nr	1		
	Gate/ Sluice Valves		-		
7.08	Supply and install DN25 gate valves for Washo Outs	98			
VOL.	Supply and install DN40 gate valves for Line Valves	nr			
	Try man and the gate varies for line varies	- III			
L. H. S. WALL	CLASS K: PIPEWORK -				
	MANHOLES AND PIPEWORK ANCILLARIES			The second second	
(A)	The rate quoted is for chambers, culverts, crossings and	-			
	reinstatements and other ancilleries as specified.				
	Air Valve/Washout/Sluice Valve Chambers				
	Construct 500mm by 500mm masonary valve chamber.	erana kena			Mary Mary Control of the Control of
7.09	Depth not exceeding 2m, all in accordance with details shown on drawings. Include for provision and fixing of cast iron step irons and heavy duty rectangular mild steel frame as per details on drawing	nr	3		
		Sec. 1			
	Marker Posts				
	Construct concrete marker posts and install along the water supply pipeline, all in accordance with details shown on drawings. (Reinforced concrete 1:2:4(class 20/20, bars D12), as per details on drawing				
7.10	Pipeline marker post inscribed WL	nr	3		
7.10	Air valve marker post Inscribed AV	nr	1		
7.12	Washout marker post inscribed WO	nr	1		
7.13	Sluice Valve marker post inscribed SV	nr	i		
7,10	Office ( M. ) Common particular and the comm		and the second		
	CLASS L: PIPEWORK - ANCILLARIES TO LAYING AND EXCAVATION				
	Extras to excavation and backfilling in pipe trenches				
	Excavation in rock Class A	<sub>m</sub> 3	1		
7.14	-Ditto- but rock Class B	<sub>m</sub> 3	1		
7.15		<sub>m</sub> 3	1		
7.16	-Ditto- but rock Class C	- "			W
	Note:- Blasting is NOT permitted				
	Class L; PIPEWORK - SUPPORTS AND PROTECTIO N, ANCILLIARIES TO LAYING AND EXCAVATION				
7.17	Construct concrete stools for fitting and thrust blocks and anchor blocks to all bends along the water supply pipeline, all in accordance with details shown on drawings Thrust blocks - RC, Volume 0.2 - 0.5m3	nr	3		
	Titt dat Discounting	m	12	COVERNMENT	H MAKUENI COU
7.18	Concrete surround to pipe at directed sections				WAYNENI CON
	Amount for Bill 3 carried to Summary				
				29/	UG 2024
			,49		LULY

Item	Item Description	Unit	Quantity	Unit Rate	Amount
ILL 8	ESTABLISHMENT OF DEMMO FARM				
	Supply and deliver the following	Units	Qty	Unit Price	Total Cost
8.01	Vertical bags- Large Kitchen Garden Sacks	No.	50.00		
8.02	Conical garden dam-liner polythene sheet	No.	50.00		Andrew Control
8.03	Purchase and supply of Kales seeds (Hybrid)	grams	50.00		
8.04	Purchase and supply spinach seeds (Local)	grams	50.00		
8.05	Purchase and supply amarathas (Managu) seeds (Local)	grams	50.00		
			18036	2 1 10 7	No.
8.06	Purchase and supply black night shade (Mchicha) (Local)	grams	25		
8.07	Purchase and supply Coriander (Daniah) seeds (Local)	grams	50		
8.08	Purchase and supply Onion seeds (Hybrid)	grams	250		
8.09	Purchase and supply 50 Kgs fertilizer as advised	No.	2		
8.10	Purchase and supply of pasture seeds, Cencrus ciriaris, Eragrostis superba, (Ndata Kivumbu and Mbeetwa) as shall be instructed	Kgs	100		
8.11	Purchase and supply of pasture seeds 0.5 Kg bracharia as shall be instructed	No.	2		
8.12	Supply and install 5,000 litres double layer PVC water tank on a high masonry platfoarm, and plumbing works as shall be instructed	No.	1		
8.13	Purchase and supply assorted agrochemicals as shall be directed	Ml	600		
8.14	Supply all necessary items and install complete 0.25 ACRE Drip Kit as shall be instructed	No.	1		
0.14	Amount for Demmo Farm		+		
	A Miles in the second s				
BILL 9	APIARY ESTABLISHMENT				
	Apiary Shed				The Columbia Color
9.01	Site clearance, stripping of top soil and ground leveling	m²	12		
9.02	50*50*3mm angel lines for bench collumns and beams	m	45		
9.03	Fabricate and install 50x50x3mm SHS for shed collumns, appro 3m long, fabicated to receive timber for sloping roof as shall be directed	No.	6	****	
	75x50mm timber rafter and 50x50mm timber purlin				
9.04	complete with G30 box profile iron sheet roofing	m²	15		
9.05	Mass concrete 1:3:6 for anchorage	m <sup>3</sup>	75.61		
9.06	Supply and install 2 m high x 14 gauge chainlink complete with 14 Gauge x 6 strand galvanised wired fencing with 100 x 125 mm cranked precast concrete posts at 2 m centres mortised in mass concrete sorround		18		
9.07	2m wide steel gate anchored on reinforced concrete columns using 4 No. Y10 Debars each column. c/w padlocks as per the provided drawing	No.	1		
9.08	Supply and install Improved Deep Super Langstroth Beehive-Brood box 505x406x244 mm, 1m high from ground level as shall be directed. Painted yellow with Makueni County Name/FLLoCA, Plastic queen excluder included. Made of well seasoned pine wood with hive adjustable locks to bind the Superbox and brood box	No.	10		
9.09	Purchase and supply of Full Protective Gears Bee Suit, Bee Gloves	No.	2		
9.10	Smoker Gun	No.	2		
	3-Frame Centrifuge Honey Extractor	No.	2		
9.11	Amount for 1No. Apiary	Company of the Company	A CONTRACTOR OF THE PARTY OF TH	The same of the sa	

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Item	Item Description	Unit	Quantity	Unit Rate	Amount
	GRAND SUMMARY PAGE				
BILL	BILL DESCRIPTION				AMOUNT
BILL 1	PRELIMINARIES AND GENERAL ITEMS				
BILL 2	RISING MAIN PIPELINE DN90				
BILL 3	WATER POINTS 3NO.				
BILL 4	100 CUBIC METER STD MASONRY TANK				
BILL 5	RETURN LINE DN63MM				
BILL 6	MUSELELE LINE DN50MM				
BILL 7	KWA SOO LINE DN40MM				
BILL 8	ESTABLISHMENT OF DEMMO FARM 1/4ACREA				
BILL 9	APIARY ESTABLISHMENT, 10 BEEHIVES AND ACCESSORIES				
	SUB TOTAL	-			<u> </u>
	CONTIGENCIES ADD KSHS 200,000 FOR CONTIGENCIES				200,000.0
	TOTAL				200,000.0
	VAT(16%)				
	AMOUNT FOR BUILDER'S WORK CARRIED TO FORM OF TEN	DER			200,000.0
-	GRAND TOTAL FOR BUDGETTING				200,000.0

GRAND TOTAL FOR BUDGETTING

