

REHABILITATION / EXTENSION OF MOMBASA WATER SUPPLY WORKS**CONTRACT No. KeNHA/2000/2018****RELOCATION OF DISTRIBUTION NETWORK SYSTEM ALONG CHANGAMWE TO MAKUPA ROUNDABOUTS****BILL No. 1****PRELIMINARIES AND GENERAL**

ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AAMOUNT
				Kshs	Kshs
1	Contractual Requirements				
1.1	Allow for provision of Performance Security in accordance with Clause 4.2 of General Conditions of Contract	L.S	1		-
1.2	Allow for provision of Insurance in accordance with Clause 18.2 of General Conditions of Contract	L.S	1		-
1.3	Allow for provision of Insurance in accordance with Clause 18.3 of General Conditions of Contract	L.S	1		-
1.4	Allow for provision of Insurance in accordance with Clause 18.4 of General Conditions of Contract	L.S	1		-
2	Special Requirements				
2.1	Contractor's Camp and Storage Yards: Allow for erection of the Contractor's Camp / Storage Yards, offices and other facilities including mobilization, demobilization and movement off the works site on completion. Include for all equipment, temporary measures, machines, tools, materials, facilities for workers, water and electricity supply etc. for execution of the Works. The Employer has no available land to offer for Contractor's Camp, storage of materials and preparation of concrete etc. Identification and procurement of suitable area of land for Contractor's Camp whether rented or purchased is the responsibility of the Contractor.	L.S	1		-
2.3	Test Running of the Scheme: Allow for Test Running of the Scheme for a period of 2 weeks upon completion and handover of the Works. Contractor to operate the entire Pipeline network including supply water quality testing, operation and maintenance staff, etc. Operation to be on 24 hour basis for 4 weeks.	L.S	1		-
3	Specified Requirements				
	Sign Boards				
3.1	Provide and erect Sign Boards at the Sites indicated by the Engineer and in accordance with the Conditions of Contract. Details of Sign Board shown on Drg. No. M387/SD/01	Nr	2		-
3.2	Allow for setting out of the Works in accordance with Conditions of Contract and Specifications	L.S	1		-
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ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AAMOUNT
				Kshs	Kshs
3.3	Allow a Provisional Sum of Kshs.1,500,000 for provision of Transport, office stationery, Daily/Monthly supervision costs for the CWSB, Mowasco and County Staff during the implementation stage	P.S	1		-
3.4	Add% for profit, administration, attendance upon, overheads, etc. for Item 3.3 above (% to be as per Appendix to Form of Bid)	%			-
3.5	Deploy inspector of works for the entire period of the project implementation to carryout daily supervision, Liaison with the KeNHA Consultant, other authorities, follow up with CWSB and Mowasco instructions and any other duties as instructed by CWSB and KeNHA (A civil Engineer with a BSC degree)	Month	15		-
3.60	Allow a P.C. Sum of Kshs. 2,500,000 for maintaining, running and servicing the a Vehicle to be deployed by CWSB to the site, all as Specified, including all costs of servicing, fuel, driver allowances	P.C	1		-
3.61	Add% for profit, administration, attendance upon, overheads etc., for Item 3.6 above (% to be as per Appendix to Form of Bid)	%			-
Telecommunications					
3.70	Allow a P.C. Sum of KShs. 500,000 for telephone, email and fax services for the entire project period, for the CWSB and the deployed civil engineer	Month	18		-
3.71	Add% for profit, administration, attendance upon, overheads, etc. for Item 3.70 above (% to be as per Appendix to Form of Bid)	%			-
Other Supplies					
3.80	Allow a P.C. Sum of KShs.3,000,000 for re-location of services by Telekom, Safaricom data cables and other Internet providers, KPLC and/or any other institution and for statutory costs for road/railway crossings. Liaison with these Authorities to be responsibility of the Contractor for the timely execution of the Works.	P.C	1		-
3.81	Add% for profit, administration, attendance upon, overheads, etc. for Item 3.80 above (% to be as per Appendix to Form of Bid)	%			-
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CONTRACT No. KeNHA/2000/2018

RELOCATION OF DISTRIBUTION NETWORK SYSTEM ALONG CHANGAMWE TO MAKUPA ROUNDABOUTS

BILL No. 2

CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION

ITEM No.	DESCRIPTION	UNIT	QUANTITY	BIDDERS AMOUNT	
				RATE Kshs	Kshs
CLASS A: GENERAL ITEM					
A3	General Excavation				
	Parts of Distribution Mains are to be laid in built up areas with heavy pedestrian and vehicular traffic.				
	Specific conditions in execution of these works are deemed to be included in the Contractor's rates. These include but are not limited to the following: i) No blasting will be permitted in these areas ii) Machine excavation may not be possible due to limited space and safety therefore manual excavation and double haulage of material should be allowed. iii) The Contractor to maintain continuity of water supply in existing mains iv) Access of both pedestrians and vehicles to individual shops / plots to be maintained at all times v) Safety hoarding, lighting, bands, warning signs, etc. to be maintained at all times vi) Works may have to be carried out after business hours and during the night to comply with work programme vii) Weathered coral will be deemed to be Class 'A' Rock viii) All other types of coral will be deemed to be Class 'B' Rock ix) Allow for method related costs for laying water mains in built-up area				
A3.1	Costs relating to meeting above mentioned specific conditions	L.S	1		
A26	Testing of works				
A26.1	Pipeline testing and commissioning for the whole work on these lines (600mm & 1200mm dia.), including all necessary equipment, materials and works necessary for testing, such as thrust blocks, anchor blocks, transportation and use of water, pipe fittings, disposal of used water.	m	5,600		
A26.2	Disinfection of Pipe lines: flushing with clear water, filling with water containing 0.05 g/l calcium hypochlorite, left for 24 hours. This includes supply of all necessary equipment, materials, chemicals and water, measurement of residual chlorine, all as specified.	m	5,600		
D529.1	Demolish existing valve chamber and cart away to tips identified by the Contractor	Nr	4		
CLASS I: PIPE WORK - PIPES SUPPLY AND PIPE LAYING					
Supply, Transport to Site and Store.					
I4	Cement Mortar Lined Ferrous Pipes Class NP16 with socket and Couplings accordingly				
I451.1	ND 900	m	2,700		
I451.2	ND 600	m	2,700		
I451.3	uPVC 150mm	m	300		
I451.4	uPVC 200mm	m	300		
I451.5	uPVC 75mm	m	300		
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				RATE Kshs	Kshs
	<u>Transport from site store, lay and joint pipes in trench, include for excavation, preparation of surfaces, disposal of excavated material, shoring sides of excavation and backfilling.</u>				
	<u>Note:- Trench width and minimum cover to pipes is as per the Specification. The cost shall include for strutting, shuttering, stabilizing the earth faces of trenches and keeping the trenches free of water from whatever source by pumping or other means and costs of use of selected soil from the excavated material for compaction in bed and surround to backfilling of trenches, etc., all as specified.</u>				
I4	Cement Mortar Lined Ferrous Pipes Class NP16 With Couplings				
I452.1	ND 900 in trench, depth not exceeding 1.5m	m	100		
I453.1	ND 600 in trench, depth 1.5 to 2.0 m	m	100		
I454.1	ND 600 in trench, 2.0 m - 2.5m	m	2600		
I454.2	ND 900 in trench, 2.0 m - 2.5m	m	2600		
I5	uPVC Socket & Spigot Pipes				
I512.1	ND 150mm Class B in trench, depth 1.5 -2.0 m	m	300		
I513.1	ND 200mm Class B in trench, depth 1.5 - 2.0 m	m	300		
I513.2	ND 75mm Class B in trench, depth 1.5 - 2.0 m	m	300		
I513.3	ND 200mm Class B in trench, depth 2.5 m	m	300		
	CLASS J: PIPE WORK - FITTINGS AND VALVES				
	SUPPLY, LAYING AND JOINTING				
	<u>Supply, Transport to Site and Store and Lay the fittings.</u>				
J3	Cement Mortar Lined Ferrous Fittings				
J31	All Flanged Bend				
J315	ND 900				
J315.1	45°	Nr	2		
J31	Plain Ended Bend				
	ND 600				
J315.2	11.25°	Nr	2		
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	ND 900				
J315.3	11.25°	Nr	2		
J313.4	22.5°	Nr	1		
J313.5	30°	Nr	1		
J32	Junction and Branches				
J324	All Flanged Tee (ND 600 - ND 900)				
J324.1	ND 900 x ND 600	Nr	1		
J325	All Flanged Tee (ND 900 - ND 1000)				
J325.3	ND 900 x ND 700	Nr	1		
J325	All Flanged Invert Level Tee (ND 600 - ND 1200)				
J325.4	ND 600 x ND 200	Nr	1		
J33	Tapers				
J331	Flanged Concentric Taper (<=ND 200)				
J331.1	ND 900 x ND 700	Nr	1		
J34	Couplings				
J341	Ferrous Coupling (<=ND 200)				
J343.1	ND 200 Coupling	Nr	4		
J344	Ferrous Coupling (ND 600-900)				
J344.1	ND 900 Coupling	Nr	4		
J344.2	ND 600 Stepped Coupling	Nr	4		
J345	Ferrous Coupling (ND 900-1200)				
J345.1	ND 900	Nr	15		
J35	Ferrous Flange Adaptor				
J351	Ferrous Flange Adaptor (<=ND 200)				
J351.1	ND 200	Nr	4		
J354	Ferrous Flange Adaptor (ND 600-900)				
J354.1	ND 900	Nr	1		
J355	Ferrous Flange Adaptor (ND 900-1200)				
J355.1	ND 1000	Nr	1		

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BILL No. 2

CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION

ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	BIDDERS AMOUNT
				Kshs	Kshs
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CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION

ITEM No.	DESCRIPTION	UNIT	QUANTITY	BIDDERS AMOUNT	
				RATE Kshs	Kshs
J38	Straight Specials				
J381.1	Plain Ended Pipe, L=1.2 m (<=ND 200)				
J381.1.1	ND 200	Nr	4		
J384.1	All Flanged, L=1.2m (ND 600 - 900)				
J384.1.1	ND 900	Nr	4		
J384.2	Flanged Spigot, L=1.2m (ND 600 - 900)				
J384.2.1	ND 600	Nr	4		
J384.3	Plain Ended Pipe, L=1.2m (ND 600 - 900)				
J384.3.1	ND 900	Nr	1		
J384.4	Plain Ended, L=12m (With Couplings - Cut to suit on site) (ND 600 - 900)				
J384.4.1	ND 900	Nr	1		
J385.1	All Flanged with Puddle Flange, at 600 mm from flanged end, L=1.2m (ND 900 - 1200)				
J385.1.1	ND 1200	Nr	1		
J385.2	Flanged Spigot, L=1.2m (ND 900 - 1200)				
J385.2.1	ND 900	Nr	3		
J385.2.2	ND 600	Nr	3		
J8	Valves				
J81	Flanged Gate Valve				
J811	Flanged Gate Valve (<=ND 200)				
J811.1	ND 200	Nr	2		
J814	Flanged Gate Valve (ND 600 - 900)				
J814.1	ND 600	Nr	1		
J815	Flanged Gate Valve (ND 900 - 1200)				
J815.1	ND 900	Nr	1		
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ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	BIDDERS AMOUNT
				Kshs	Kshs
J86	AIR VALVES				
J861.1	Air Valve (<=ND 200)				
J861.1.1	Double Orifice Air Valve with Built-in Isolating Valve; ND 80	Nr	1		
J95.1	Flanged Water Meter				
J95.1.1	ND 600	Nr	1		
J95.2	All Flanged Strainer				
J95.2.2	ND 600	Nr	1		
	CLASS K: PIPE WORK - CHAMBERS AND PIPE WORK ANCILLARIES				
	Chambers, ducts, culverts, crossings, thrust and anchor blocks, reinstatement and others as listed and specified in drawings.				
	Note:- Items for work in this class shall include:- - Excavation, preparation of surfaces, disposal of excavated material, shoring sides of excavation, backfilling and removal of redundant services. - Concrete, reinforcement, formwork, joints and finishes. - Tips for disposal of excavated material or debris to be identified by the Contractor in liaison with the Local Authority.				
K23	IN SITU CHAMBERS				
K233	Depth 2 m - 2.5m				
K233.1	Provide all materials and construct valve chamber, internal dimensions 2400mm x 2200mm. Include for supply and fixing of precast concrete cover and step irons, as detailed on drawings.	Nr	5		
K234	Depth 2.5 m - 3.0m				
K234.1	Provide all materials and construct valve chamber, internal dimensions 1200mm x 1200mm. Include for supply and fixing of precast concrete cover and step irons, as detailed on drawings.	Nr	2		
K234.2	Ditto but dimensions 2000mm x 2200mm	Nr	1		
K231.3	Provide all materials and construct valve box for wash out as detailed on standard drawings.	Nr	1		
K235	Depth 3.0 m - 3.5m				
K235.1	Provide all materials and construct valve chambers internal dimensions 1200mm x 1200mm. Include for supply and fixing of precast concrete cover and step irons, as detailed on drawings.	Nr	1		
K235.2	Ditto but dimensions 2000mm x 2000mm	Nr	1		
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ITEM No.	DESCRIPTION	UNIT	QUANTITY	BIDDERS AMOUNT	
				RATE Kshs	Kshs
K6	Crossings				
K673	Allow for crossing existing drains and reinstating these after construction of the water mains is completed. Include for provision of diverting the drains or water ways and keeping them operational during construction. Nominal bore 900 - 1200mm	m	100		
K7	Reinstatement				
K73	Breaking up, temporary and permanent reinstatement of tarmac (paved) roads				
K733.1	Pipe bore 900 - 1800mm	m	90		
K741	Breaking up temporary and permanent reinstatement of paved footpaths (concrete, cabro, tarmac, etc.)				
K741.1	Pipe bore 900 - 1200mm	m	600		
K8	Other Pipework Ancillaries				
K82	Supply and fix marker posts for water main route, road crossings, change of direction, air valves, washouts, fire hydrants and valve chambers. All in accordance with drawings and specifications	Nr	28		
K85	Connection to Existing Chambers				
	Connection to DN350 Mikindani line to the newly relocated Mzima DN600 line at Mikindani junction include for locating, excavation for, dewatering and breaking up of the existing wall to suit, fitting and fixing of fittings and permanent reinstatement to make				
K855.1	To pipe bore 600mm	m	25		
K86	Connection to Existing Pipes				
K864	Pipe Bore (ND 600 - 900)				
K864.1	Connections to Existing 900mm Dia D.I Pipe, include for Locating,Excavation for Dewatering and Cutting of Existing Pipe to suit design, Laying and Jointing, and Reinstatement on completion.	Nr	2		
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<p><u>REHABILITATION / EXTENSION OF MOMBASA WATER SUPPLY WORKS</u></p> <p><u>CONTRACT No. KeNHA/2000/2018</u></p> <p><u>#REF!</u></p> <p><u>RELOCATION OF DISTRIBUTION NETWORK SYSTEM ALONG CHANGAMWE TO MAKUPA</u></p> <p><u>BILL No. 2</u></p> <p><u>CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION</u></p>		
		BIDDERS AMOUNT
		Kshs
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	Bill Total Exclusive of Duties and Taxes, Carried to the Bill of Quantities Summary 1 (One)	(A)

REHABILITATION / EXTENSION OF MOMBASA WATER SUPPLY WORKS

CONTRACT No. KeNHA/2000/2018

RELOCATION OF DISTRIBUTION NETWORK SYSTEM ALONG CHANGAMWE TO MAKUPA ROUNDABOUTS

CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION

BILL No. 3

SCHEDULE OF DAYWORKS

ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	BIDDERS AMOUNT
				Kshs.	Kshs
	<u>NOTE: THE WHOLE OF THIS BILL IS PROVISIONAL</u>				
	<u>Notes:</u>				
i)	The whole of this Section is Provisional				
ii)	<u>The rates inserted in this Schedule are to cover all establishment charges, insurances, holidays with pay, use and sharpening of all tools, supply of water, scaffolding, plant, hoisting gear etc., travelling and all other charges, overheads and profit</u>				
iii)	The rates for materials are to cover delivery to the usual points at which materials are received on the site and for distribution to the individual sites, storage, handling, overheads and profit				
iv)	The rates for plant shall be rates for working time only and maintenance, fuel, oil and operator's time shall be included in the hourly rates				
v)	The time of gangers working with their gangs is to be paid for under the appropriate items, but the time of foremen and walking gangers is to be covered by Superintendence of the Contract generally				
vi)	The Contractor will not be paid for any work as day and hour unless he shall have obtained a written order from the Engineer before the commencement of the said work. All claims made by the Contractor for day and hour work must be supported by certified copies and the written order from the Engineer				
vii)	The rates will be used in assessing the cost of any extra work ordered by the Engineer for execution on daywork basis. In case any rate is found to be grossly in excess of prevailing market rates the Engineer shall use the market rate for this purpose				
viii)	The quantities indicated in this schedule are for the purpose of obtaining competitive rates. The work to be done may not be restricted to these quantities. The Contractor shall be required to work on the rates quoted irrespective of the quantities being greater or less than those quoted in this schedule				
ix)	If any of the following items is not priced, then other priced items will be deemed to cover for the costs for executing the item which is not priced				

REHABILITATION / EXTENSION OF MOMBASA WATER SUPPLY WORKS

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CHANGAMWE -MAKUPA ROUNDABOUT NETWORK RELOCATION

BILL No. 3

SCHEDULE OF DAYWORKS

ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	BIDDERS AMOUNT
				Kshs.	Kshs
1	<u>LABOUR</u>				
	The rates inserted herein should include for all costs such as insurance, travelling time, overtime, accommodation, use and maintenance of small tools of trade, supervision, overheads and profit. Only time engaged upon work will be paid for.				
1.1	Unskilled Labourer	Hrs	75		
1.2	Timberman	Hrs	25		
1.3	Stone Mason	Hrs	75		
1.4	Carpenter	Hrs	75		
1.5	Concreter	Hrs	100		
1.6	Blaster (Certified)	Hrs	10		
1.7	Pipelayar	Hrs	75		
1.8	Painter	Hrs	30		
1.9	Surveyor	Hrs	50		
1.10	Foreman	Hrs	75		
1.11	Watchman (including use of firewood, lights, day, night, Sunday and Public Holiday watching)	Hrs	75		
2	<u>PLANT</u>				
	The rates inserted herein should include for all operational and maintenance costs, fuel, oil, grease, operators, turnboys, supervision, overhead and profits. Only the time actually employed on works will be paid for and the rates should include for idle, travelling and overtime.				
2.1	Compressor complete (3.0 m ³ /minute)	Hrs	25		
2.2	Compressor complete (6.0 m ³ /minute)	Hrs	25		

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BILL No. 3

SCHEDULE OF DAYWORKS

ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	BIDDERS AMOUNT
				Kshs.	Kshs
2.3	Pneumatic Pick	Hrs	15		
2.4	D4 Tractor	Hrs	30		
2.5	D8 Tractor	Hrs	30		
2.6	Concrete Vibrator (Petrol or Diesel)	Hrs	30		
2.7	Concrete Mixer 14/10 (including batch weighing gear and drag feed shovel)	Hrs	75		
2.8	-Ditto- but 7/5	Hrs	15		
2.9	Dumper 0.38 m ³	Hrs	75		
2.10	Dumper 0.76 m ³	Hrs	20		
2.11	5 Tonne Lorry (Tipper)	Hrs	75		
2.12	7 Tonne Lorry (Tipper)	Hrs	25		
2.13	Portable water pump 50mm diameter (inclusive of hoses, couplings, etc.)	Hrs	20		
2.14	Oxy-Acetylene cutting and welding set including oxygen and acetylene	Hrs	20		
2.15	Electric welding set including electrodes	Hrs	20		
3	<u>MATERIALS</u>				
	All materials are to comply with the specifications. The rates inserted herein are to include for delivery to site, storage, handling, overheads and profits.				
3.1	Ordinary Portland Cement	Tonne	10		
3.2	Mild Steel (any size from 6mm to 25mm dia.)	Kg	500		
3.3	High Tensile Steel (any size from 8mm to 25mm dia.)	Kg	500		
3.4	Fine Aggregate for Concrete	m ³	50		

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	BIDDERS AMOUNT
	Kshs
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Total Inclusive of Duties and Taxes, Carried to the Bill of Quantities Summary Page	(A)

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BILL NO.	DESCRIPTION	TOTAL COST EXCLUDING DUTIES & TAXES (Kshs.)
1	PRELIMINARIES AND GENERAL	
2	DN900 (2.7Km) and DN 600 (2.7Km) CHANGAMWE - MAKUPA	
3	DAY WORKS SCHEDULE	
	Sub Total (1)	
	Add 7.5% of Sub Total (1) for Physical Contingencies (2)	
	Sub Total (3)	
	Add 7.5% of Sub Total (2) for Price Contingencies (4)	
	GRAND TOTAL [Sub Total (3) + (4)] TO BE CARRIED TO FORM OF BID	