



Kiambu Water and Sew. Co. Ltd

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**TENDER FOR SUPPLY, DELIVERY AND INSTALLATION OF CONSUMER WATER METERS AND CONSTRUCTION OF HDPE PIPELINES.
(CITIZEN CONTRACTORS)**

ADDENDUM 1

Dated:24/10/2024

Addendum No. 1 Item 1

Pages 17 -19, Section II Part D Submission & Opening of Tenders ITT 24.1 & 27.1 (Tender Data Sheet- TDS)– KIAWASCO/CLSG2/001/2024-2025 document is revised and replaced as below:

D. Submission and Opening of Tenders	
ITT 24.1	<p>(A) For <u>Tender submission purposes only</u>, the Procuring Entity’s address is:</p> <p>Name of Procuring Entity Kiambu Water & Sewerage Company Ltd Postal Address Managing Director, P.O Box 409-00900 Kiambu</p> <p>Physical address for hand Courier Delivery to an office or Tender Box KIWASCO Offices, Opposite Kiambu Level 5 Hospital Mortuary, Procurement Office Room No. 2.</p> <p>Date and time for submission of Tender 05th November 2024 at 12.00 noon (East African Time) Tenderers shall not submit tenders electronically.</p>
ITT 27.1	<p>The Tender opening shall take place at the time and the address for the Opening of Tenders provided below: Kiambu Water & Sewerage Company Ltd Opposite Kiambu Level 5 Hospital Mortuary, Room No. 10</p> <p>Date and time of tender opening. 05th November 2024 at 12.00 noon (East African Time) Bidders can request for the tender opening minutes of the tender opening session through the following email address: info@kiambuwater.com cc : cmaina@kiambuwater.com</p>
ITT 27.1	Tenderers are not allowed to be submit Tenders electronically.

Addendum No. 1 Item 2

Pages 101 -108, Section VII (Bill of Quantities) - KIAWASCO/CLSG2/001/2024-2025 document is revised and replaced as below (Section E has been added):

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
IIIA	EXCAVATION BACKFILLING, MICROTUNNELLING & PERMITS				
1	Excavate trench in fields or road reserves for depths not exceeding 0.9m, refill, ram and remove surplus materials for installation of water networks	LM	23,600		
2	Extra over-excavation in rock, roads, tree roots, repair of any damage to existing sewer, water, communication lines etc.	Item	1		
3	supply and installation of a warning tape inscribed maji in excavated trenches (4km)for assorted diameters water lines	item	1		
4	Seek Approval and Micro tunnel Kirigiti Ruiru road to install a 300mm Duct and provide a 300mm sleeve to lay a DN 200mm HDPE water line (the approval should also include authority for installation of assorted diameters water distribution pipes along existing road reserves from various stakeholders i.e. KCG, KURA, KENHA, KERRA)	Item	1		
	TOTAL A EXCAVATION BACKFILLING, MICROTUNNELLING & PERMITS				
B	ASSORTED DIAMETERS 23.6 KM HDPE WATER PIPELINES				
1	Supply and deliver to respective site string and lay and join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing , and other overheads a water line DN 200MM Diameter HDPE Pipe PN 12.5	LM	2,500		
2	supply , install and continuous joinery by fusion a PN 12.5 DN 110 HDPE waterline from the existing DN 110 HDPE water line at he shooting range to connect to Kiamumbi tanks	LM	1500		
3	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD 63MM Diameter HDPE Pipe class "PN12.5" from the existing 63mm Kamiti water line at Kameto junction to interconnect to Karunga B/H 63mm UPVC line	LM	1000		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	Supply and deliver to respective sites, string, lay and continuously join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD 63MM Diameter hdpe Pipe class "PN12.5" along Ndumberi road / Muhathi to Kabae junction at Ndumberi primary school	LM	600		
5	Supply and deliver to respective sites, string , lay and continuously join by fusion the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 63mm Diameter HDPE Pipe class "PN12.5" along Ting'ang'a /Githunguri Junction	LM	1,000		
6	Supply and deliver to respective sites, string lay and join the following pipes as required. Rate should include for cutting to size and other overheads a waterline 63mmDiameter HDPE Pipe class "PN12.5" along in Ting'ang' a - Kagongo from makutano junction to upgrade existing 2" UPVC water supply line	LM	2,300		
7	Supply and deliver to respective sites, string lay and join the following pipes as required. Rate should include for cutting to size and other overheads a waterline 63mmDiameter HDPE Pipe class "PN12.5" along Ting'anga(Mugumo catholic area)	LM	700		
8	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size and other overheads a waterline 63mm Diameter HDPE Pipe class "PN16" along Ndumberi's (early bird line)	LM	1,000		
9	Supply and deliver to respective sites, string, lay continuously join by fusion the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 50mm Diameter HDPE Pipe class "PN12.5" along Ting'ang'a /Githunguri Junction	LM	700		
10	Supply and deliver to respective sites, string, lay continuously join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD50mm Diameter HDPE Pipe class "PN12.5" at Ting'a ng'a shopping centre Maini stage to ACK Kamunyonge on both sides of the road	LM	800		
11	Supply and deliver to respective sites, string, lay continuously join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD50mm Diameter HDPE Pipe class "PN12.5" at Ting'a ng'a junction to Ngaita towards Mubea area	LM	500		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
12	Supply and deliver to respective sites, string and lay continuously join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD50 MM Diameter HDPE Pipe class "PN12.5" at Karunga /Kangoya/ Ndumberi junction at the B/H to upper Kangoya Primary School	LM	200		
13	Supply and deliver to respective sites, string, lay continuously join by fusion the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 50MM Diameter HDPE Pipe class "PN12.5" at Ndumberi Kabae from the existing 50mm HDPE water line from Njunu towards the junction of the water of Kabae to water Kiosk to Kanunga Road, PEFA area and ACK Karunga	LM	1500		
14	Supply and deliver to respective sites, string lay and join the following pipes as required. Rate should include for cutting to size and other overheads a waterline 63mmDiameter HDPE Pipe class "PN12.5" along in Ting'ang' a - Kagongo from Mbiu road off Kagongo to upgrade existing 11/2" UPVC water supply line	LM	1,300		
15	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size and other overheads a waterline 50 mm Diameter HDPE Pipe class "PN12.5" in lower Kihingo -Dallas area near Matheri	LM	900		
16	Supply and deliver to respective sites, string, lay and continuously join by fusion the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD 40MM Diameter HDPE Pipe class "PN12.5" off from Dn Bosco to the junction of Tinganga /Gothunguri road	LM	500		
17	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD 40 MM Diameter HDPE Pipe class "PN12.5" at Karunga /Kangoya/ Ndumberi junction at the B/H to upper Kangoya Primary School	LM	600		
18	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a OD 40MM Diameter HDPE Pipe class "PN12.5" at Ndumberi / Kanunga Road (animal feed store) from the existing 90mm HDPE water pipe to Kariani area near the road crossing with Riara treated water mains	LM	400		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
19	Supply and deliver to respective sites, string, lay and continuously join by fusion the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 40MM Diameter HDPE Pipe class "PN16" at Ndumberi / Gichocho Junction towards Gatuma and Kiu River Coffee factory off Ting'ang'a / Githunguri road	LM	600		
20	Supply and deliver to respective sites, string lay and join the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 40MM Diameter HDPE Pipe class "PN12.5" at Ndumberi corner Mbaya from the existing 63mm HDPE water line from Ndumberi - corner Mbaya to Gatuamba	LM	600		
21	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size, testing for tightness and flushing and other overheads a OD 40MM Diameter HDPE Pipe class "PN12.5" at Ndumberi /Kiambu road from existing 50mm HDPE water line towards the junction to early bird	LM	300		
22	Supply and deliver to respective sites, string lay and join the following pipes as required. Rate should include for cutting to size and other overheads a waterline 63mmDiameter HDPE Pipe class "PN12.5" along in Ting'ang' a - Kagongo from Kagongo water Kiosk Tumburu to upgrade existing 1 1/2" UPVC water supply line	LM	900		
23	Supply and deliver to respective sites, string and lay the following pipes as required. Rate should include for cutting to size and other overheads a 50MM Diameter HDPE Pipe class "PN12.5" in Ruthiruini Kihingo/ Kirigiti junction towards Kirigiti	LM	1500		
24	Supply and deliver to respective sites, string, lay continuously join the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a 32mm Diameter HDPE Pipe class "PN12.5" at Ting'a ng'a consumer lines connected from the main water lines.	LM	1,000		
25	Supply and deliver to respective sites, string, lay continuously join the following pipes as required. Rate should include for cutting to size testing for tightness and flushing and other overheads a 32mm Diameter HDPE Pipe class "PN12.5" in Ndumberi consumer lines connected from the main water lines.	LM	700		
	TOTAL B EXCAVATION BACKFILLING, MICROTUNNELLING & PERMITS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C	WATER PIPELINE FITTINGS				
1	supply and install a 200mm* 150mm HDPE tail to connect to existing GI pipe at Thuku entrance	item	1		
2	supply and install a DN 100 GI pipe coupled with elbows to connect to the inlet of the Kiamumbi tank	item	1		
3	supply and install PN 16 2" GI gate valves	No.	13		
4	supply and install PN 16 GI 1.5" gate valves	item	12		
5	supply and install 1.25" PN 16 GI sluice valves	item	7		
6	supply and install PN 16 1" GI gate valves	No.	5		
7	supply and install a 100mm GI nipple on the main Ting'ang'a shopping line	item	1		
8	supply and install 50mm male adapters	item	20		
9	supply and install 63mm male adapters	No.	12		
10	supply and install a 63mm*90mm HDPE reducer	No	1		
11	supply and install 40mm male adapters	No.	10		
12	Provide and install 63mm HDPE end cup	No.	8		
13	Provide install a 1.5" HDPE end cup	No.	10		
14	Provide install a 1.25" HDPE end cup	No.	8		
15	supply and install a 90mm* 50mm HDPE saddle clamp with a 50mm GI nipple	item	4		
16	provide and install 50mm pair of HDPE connectors	No	2		
17	provide and install a 63mm* 63mm HDPE saddle clamp with a 2" GI nipple	item	2		
18	provide and install a 63mm* 50mm HDPE saddle clamp with a 1.5" GI nipple	item	8		
19	supply and install HDPE 50mm * 25mm HDPE connectors fitted with 1 1/2" nipple	No.	5		
20	supply and install HDPE 63mm * 25mm HDPE connectors fitted with 2" nipple	No.	10		
21	provide and install a 50mm* 40mm HDPE saddle clamp with a 1.5" GI nipple	item	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
22	provide and install a 50mm* 40mm HDPE tee	item	2		
23	supply and install a 63mm* 50mm HDPE reducer	item	1		
24	supply and install a 50mm* 40mm HDPE reducer	item	4		
TOTAL C WATER PIPELINE FITTINGS					
D	WATER METERS & FITTINGS				
1	Supply, deliver and install 15mm consumer meters Dry dial, R250 high accuracy for billing purposes in the areas the with new & upgraded water pipelines. (Cost to include accuracy testing of a random sample of 10% of the water meters supplied in an accredited laboratory)	No	225		
2	supply PN 16 PPR 15mm ball corks at the consumer meter	No	225		
3	supply PN 16 GI 15mm gate valves at the consumers tee off	No	225		
4	supply 15mm adapters to join the gate valve and consumer water pipe	No	225		
5	supply 15mm GI nipple to connect the saddle clamp at the consumer line	No	225		
6	supply 15 mm male & female elbows to raise the consumer meter from the ground level for ease of meter reading	No	450		
7	supply 15 mm PPR elbow raise the consumer meter from the ground level for ease of meter reading	No	225		
8	supply of HDPE saddle clamps 3"X 1/2" for consumer tee offs	No	25		
9	supply of HDPE saddle clamp 2"X 1/2" for consumer tee offs	No	50		
10	supply of HDPE saddle clamp 1 1/2"X 1/2" for consumer tee offs	No	50		
11	supply of HDPE saddle clamp 1"X 1/2" for consumer tee offs	No	50		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TOTAL D WATER METERS & FITTINGS				
E	ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)				
1.	Loss of Flora and Fauna <ul style="list-style-type: none"> - The Contractor shall ensure that clearing of vegetation clearing is limited to the pipeline trench area (i.e. 0.5 meters width) within the road reserve. - Transportation of construction materials to be done through the existing local roads. - Avoidance of vegetation clearing along riparian land. - Sensitization of construction work- force on environmental conservation and ecological protection. - Re-vegetation of completed pipeline route with fibrous rooted indigenous vegetation species. 	Item	1		
2.	Landslides due slope instability at excavation areas for pipelines installations. <ul style="list-style-type: none"> - Use of manual labour for trenching and backfilling. - Avoid utilization of heavy machinery near steep landscapes. 	Item	1		
3.	Soil erosion and siltation of surface water resources. <ul style="list-style-type: none"> - Use excavated earth materials for backfilling. - Sprinkling of backfilled trenches with water. - Compaction of backfilled trenches. - Re-vegetation of excavated areas. - Channeling of surface water runoff away from the pipeline routes. 	Item	1		
4.	Increased Vehicular and Human Traffic. <ul style="list-style-type: none"> - Transportation of construction material to specific sites will be done through the existing local roads. - The contractor will rehabilitate the local roads that will be damaged during construction activities. - Consultation with the local communities on planned road diversions if any. - Restriction of Vehicular and Human Traffic to the road reserve where possible. - Sensitization of drivers to comply with prescribed speed limits. 	Item	1		
5.	Interruption of Existing Infrastructure. <ul style="list-style-type: none"> -The Contractor will liaise with KIAWASCO for 	Item	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	location of existing water pipelines within the provided working wayleave. -Liaison with other service providers for location of electricity & internet cables within the provided wayleave to minimize damages, -The contractor to liaise with road authorities (KENHA, KURA & KERRA) during the installation of pipelines in the provided road reserves. -The contractor will immediately restore the damaged infrastructure during the installation of pipelines, to pre-construction conditions.				
6.	Air quality degradation, emission of dust and exhaust smoke. -Restricting traffic speed of vehicles. -Supply and construction vehicles will only use the designated transport routes. -Watering of the unpaved roads to minimize dust emissions. -The contractor will ensure proper repair and maintenance of vehicles and equipment to minimize exhaust smoke. - Construction workers will be provided with dust masks to mitigate.	Item	1		
7.	Noise pollution - Noise minimized by limiting operating times to daylight hours. - Reduce as possible the vehicles' speed and movement of people.	Item	1		
8.	Generation of solid wastes - Provision of solid waste collection facilities (waste bins). - Contracting licensed solid waste handlers. - Sensitization of construction workers on proper disposal of solid wastes	Item	1		
9.	Discharge of polluting substances into the soil including washed water from construction areas, oil, accidental spills etc... - Proper handling of waste oils and greases during servicing of vehicles and equipment. - Minimizing oil leakages in vehicles and construction equipment. - Good management of wastewater before releasing in natural environment. - Planning for good management of hazardous substances, if any.	Item	1		
10.	Risk of accidents to workers, road users, and neighboring community. - Strict application of Occupational Safety and Health (OSH) plan.	Item	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<ul style="list-style-type: none"> - Availability of protective safety equipment specific to the working environment. - Availability of First Aid Box and emergency medical coverage as well as trained Nurse and a safety officer. 				
11.	Health and Safety Hazards <ul style="list-style-type: none"> - continuous supervision of occupational, health and safety management to ensure compliance. - Occupational Safety and Health - Training for contractor's staff. - Conduct orientation talks and visits. 	Item	1		
12.	Increased prevalence and transmission of HIV/AIDS and other STDs due to influx of workers migrating to worksites seeking jobs or already recruited. <ul style="list-style-type: none"> - Application of public health management plan. - Increasing awareness and campaigns against transmitted diseases among workers and local population. 	Item	1		
TOTAL E ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)					
Section A Total					
Section B Total					
Section C Total					
Section D Total					
Section E Total					
16% VAT					
GRAND TOTAL (EXCAVATION BACKFILLING, MICROTUNNELLING, PERMITS, WATER PIPELINE FITTINGS, WATER METERS, FITTINGS & ESMP)					

BILLS OF QUANTITIES SUMMARY

BILL	DESCRIPTION	AMOUNTS (KSHS)
1.	Section A Total	
2.	Section B Total	
3.	Section C Total	
4.	Section D Total	
5.	Section E Total	
6.	16% VAT	
	GRAND TOTAL TO BE CARRIED TO TENDER FORM	

TENDERER'S NAME: _____

TENDERER'S SIGNATURE _____

COMPANY'S RUBBER STAMP _____

Date..... [insert date] *

BIDDER'S ACKNOWLEDGEMENT OF ADDENDUM NO. 1

We, the undersigned, hereby certify that the addendum is an integral part of the document and the alterations set out in addendum have been incorporated in our Tender.

Signed.....

Tenderer.....

Date