



NAKURU RURAL WATER AND SANITATION COMPANY LIMITED

SUMMARY OF PROCUREMENT PROCEEDINGS F/Y: 2023-2024.

Procuring Entity: **Nakuru Rural Water and Sanitation Company.**

Financial Year: **2024-2025.**

Tender/Quotation No: **NRW/04/2023-2024.**

Description of the Tender: **Supply and delivery of smart water meters.**

Requisition No: **4707**

Procurement method: **Open Tender**

	Procurement Stage	Indicators		Information on Indicators (fill as appropriate)
1	Invitation and Tender opening	Tender Invitation/advertisement date		21/05/2024.
		Tender closing/opening date		4/06/2024
		Number of bidding document issued		Nil
		Number of bids received		4
		Names of tender opening committee members		-John Okioga- Chairperson - Roseline Chepkorir - Secretary - Peris Odhiambo - Member
		Number of bidders present		9
2	Tender evaluation	Evaluation committee	Names of the tender evaluation committee members	-Florence M. Wambui- Chairperson -Elizabeth Langwech - Secretary -Gilbert Chelule - Member

		Specify consultants/external experts involved in evaluation if any	Name	N/A
			Profession	N/A
			Organization	N/A
		Number of bids evaluated		4
		An extract of the evaluation criteria*		Annexed
		Number of bids passed preliminary evaluation		2
		Number of bids passed technical evaluation stage		2
		Name of the recommended/successful bidder and the price		Smart People Africa
		Date evaluation was concluded		17/6/2024
		Date evaluation report was forwarded/submitted to the head of procurement function		17/6/2024
3	Procurement professional opinion	Date the professional opinion was issued		18/6/2024
4	Tender Award	Date of approval/rejection of the award		1/8/2024
5	Notification of award	Date the notification to award a tender was sent		1/8/2024
6	Contract execution	Date the contract was signed		/08/2024

Prepared By: Head of Procurement Function

Sign:



Date:

29/08/2024.

NAKURU RURAL WATER AND SANITATION COMPANY LTD

P.O BOX 386-20100 NAKURU, KENYA

Tender No:NRW/04/2023-2024.

Tender Name: Supply and delivery of smart water meters.

Preliminary Evaluation and Mandatory Requirements

No	Requirements	Bid 1	Bid 2	Bid 3	Bid 4	Bid 5	Bid 6	Bid 7
1.	Must submit a copy of valid Certificate of Incorporation/Registration.							
2.	Attach pin certificate.							
3.	Attach valid tax compliance/Exception certificate.							
4.	Business company profile.							
5.	National ID'S/Passports of the Directors/owners of the business.							
6.	Copies of annual returns, filed by limited companies, the business names for business names (sole trader and partnerships, and a stamped receipt which bears the accounts stamp from the registrar of companies/societies; CR12, Partnership Deed.							
7.	Must submit a duly signed and stamped/sealed Tender Securing Declaration Form in the format provided.							
8.	Copy of beneficial ownership declaration.							
9.	Entire document must sequentially be paginated.							
10.	Must fill the price schedule/BOQ							

No	Requirements	Bid 1	Bid 2	Bid 3	Bid 4	Bid 5	Bid 6	Bid 7
	in the format provided.							
11.	Must fill the form of tender in the format provided and instructions provided.							
12.	Must duly filled up confidential business questionnaire in the format provided.							
13.	Must fill the anti-corruption in the format provided.							
14.	Must fill the debarment form in the format provided.							
15.	Must fill the Code of ethics form and in the format provided.							
16.	Must fill the Tenderers information form in the format provided.							
17.	Valid Authorized Power of Attorney for the specific tender.							
18.	Tender security in form of unconditional bank guarantee from public commercial bank absolute figure of Kshs 500,000.00 (Kenya shillings five hundred thousand only)							
19.	Audited Accounts for 3 years (2021-2023) F/Y.							
20.	Valid business permit.							
21.	Meter sample must be provided.							

No	Requirements	Bid 1	Bid 2	Bid 3	Bid 4	Bid 5	Bid 6	Bid 7
22.	<p><i>At this stage, the tenderers submission will either be responsive non responsive</i></p> <p><i>The non- responsive submission will be eliminated from the entire evaluation process and will not be considered further.</i></p>							

MINIMUM SPECIFICATIONS REQUIREMENTS FOR SMART COLD-WATER METERS

Features	Requirements	Bid 8	Bid 9	Bid 10
General Specifications				
Measurement units	M3			
Customizable to pre-pay and non-pre-pay mode	Ability to customize locally by utility administrator to pre-paid and non-prepaid Mode			
One Central point of command for a range of meters	Ability to be configured from one central point of command for a range of meters already installed in the field.			
GIS	Ability to send/log GPS data alongside other data i.e. amount used, credit balance, and volume dispensed, date and time etc.			
Meter type	Ultrasonic Flow Meter			
Prepaid	Ability to be configured to be prepaid and non-prepaid			
Valve Control	Automatic valve controlling			
Protection level:	IP68			
Temper Proof and Alerts	Anti-Tamper protection, including Magnetic Antitamper, Notification on SMS and emails alert on temper detection			
Material:	Copolymer			

Features	Requirements	Bid 8	Bid 9	Bid 10
Battery life, longevity and guarantees				
Battery Capacity/Life:	Up-to 8 years (transmission once a day)			
Guarantee on battery life	Guarantee of battery life of 8 Years			
Software and Integration	The meter must seamlessly integrate with Naruwasco ERP			
Software Payment:	Free			
Platform	Web/cloud-based Application			

Features	Requirements	Bid 8	Bid 9	Bid 10
Customizability and configurations	Easy to customizable and configure through GUI			
Integrations with other systems	The meter must seamlessly integrate with Naruwasco ERP and GIS system			
Reports	Can output reports in CSV, XLSX, XLS, PDF formats			
Customer Interface Unit				
Consumer Interface	The meter software must integrate with Naruwasco Self-service portals (Web, Mobile, USSD) to enable customers access details such as : water usage, credit balances, and get statistics through mobile based applications and online self-service portal			

Payment platforms	Mobile payment modes; M-PESA, Airtel, and any other available in Kenya			
Dashboards	Real time Dashboards			
Admin Monitoring, Management and control				
Admin control	Ability to turn on and off from remote online application,			
Admin Monitoring and Management	Admin ability to check battery status, Lora WAN /NBIoT status, to switch tariff and consumer category			
Prepayment balance	Administrators can monitor output the prepayments balance, amount spent, and volume consumed at any time.			
Remote Access	Ability to remote access the meter for turning on/Off,			
Remote Customization and upgrade	Ability to customize configure, query, update and upgrade the meter remotely			
Communication	Long Range communication via IoT (Lora WAN, NB-IOT, Sigfox) – specify communication method			
Standards and certifications	EU Standards			
Meter specifications from the Manufactures	Meter specifications by the manufacturer facilitated			

Abilities of the meter from the manufacturer	The meter specific abilities from the manufactures in form of catalogue or brochure Facilitated			
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Technical Requirement	Description	Bid 8	Bid 9	Bid 10
Communication mode	AMR enabled for remote connectivity and smart meter reading. The meter be accompanied by Smart Mobile app that have OCR capability and able to read QR code.			
Meter Type	Ultrasonic flow meter			
Class of Meter/Accuracy	Class R 200 and above for DN 15 and R 160 for DN 25 – DN 80			
Sizing of Meter	Both the inlet and outlet are threaded and same size and on the same axis to ease connection to pipes via connectors. The corresponding fixed set of dimensions to BS 5728/1, ISO 4064 – 1: 2014			
External Case Bolts	Meter liners made of brass for DN 25 – DN 80, meter seals made of rubbers material and meter casing-co-polymers for DN 15, bolts and nuts made of food grade stainless steel material			
Dial type	Circular, with straight reading (M3), in a transparent capsule, Dry dial (protective propylene glycol or glycerin)- dial not in contact with water flowing			

Technical Requirement	Description				Bid 8	Bid 9	Bid 10
Counter	Temper proof glass with thickness of 5mm, scratch resistant, clockwise resistant, with multiplier scale in factors.						
	DN						
	L						
	Q3						
	Q3/Q1						
	Qs						
	Q1						
	Q2						
Metrological requirements	Qs = Starting Flow rate.						
	DN	Mm	15	Max length of meter & connector			
	L	Mm	110	250mm			
	Q3	m ³ /h	2.5				
	Q3/Q1	R	250				
	Qs	m ³ /h	<6				
	Q1	m ³ /h	0.01562				
	Q2	m ³ /h	0.025				

	Q4	m ³ /h	3.125				
Metrological Requirements	DN	mm	20	Max length of meter & connector			
	L	mm	260	350 mm			
	Q3	m ³ /h	4				
	Q3/Q1	R	160				
	Qs	m ³ /h	< 2				
	Q1	m ³ /h	0.025				
	Q2	m ³ /h	0.04				
	Q4	m ³ /h	7.875				
Metrological requirements	DN	mm	25	Max length of meter & connector			
	L	mm	260	400 mm			
	Q3	m ³ /h	6.3				
	Q3/Q1	R	200				
	Qs	m ³ /h	20				
	Q1	m ³ /h	0.03975				
	Q2	m ³ /h	0.063				
	Q4	m ³ /h	7.875				
Accuracy class and maximum permissible error (MPE)	Accuracy class 2 water meters						
	The water meter shall be designated as accuracy class 2. The Maximum Permissible Error (MPE) for the upper flow rate zone ($Q_2 \leq Q \leq Q_4$) shall be $\pm 2\%$, (for temperatures from 0.1 °C to 30						

	<p>°C and ± 3 % for temperatures greater than 30 °C).</p> <p>The MPE for the lower flow rate zone ($Q_1 \leq Q < Q_2$) shall be ± 5 % regardless of the temperature range.</p>			
Tightness, pressure, and temperature resistance	<p>Meters are watertight, Working pressure PN16</p> <p>Test pressure 2.5 x meter PN</p> <p>Temperature range up to 500 C</p>			
Rotary piston and Meter PH	<p>Smoothly finished with thrust rollers</p> <p>PH 6.5 – 8.5</p>			

<p>Material Requirement</p>	<p>The material should be resistant to normal exposures,</p> <p>The meter body shall be UV stabilized co- polymer, NOT plastic.</p> <p>The meter body material to be specified in the brochure clearly.</p> <p>The water meter shall be threaded. The meters shall be supplied complete with a set of connectors that are made of copper alloy or equivalent material resistant to corrosion, rust, and damage due to shock or vibration. The connectors shall be threaded to the correct male size, comprising cap nuts, linings, and fiber sealing washers. The meter linings shall have adequate provisions to safeguard against tampering.</p>			
<p>Additional Technical Requirement</p>	<p>All meters shall be provided with effective inlet strainers, close fitting and designed for easy removal. Inlet strainers shall be of nickel-plated copper, stainless steel or other materials having satisfactory characteristics.</p> <p>All meters shall be delivered calibrated,</p> <p>The meter is permanently sealed to avoid tampering</p>			
<p>Non-return Valve</p>	<p>The meter shall have inbuilt Non – Return Valve to reduce the risk of water meter reversal fraud.</p>			

Marks and Inscriptions	Direction of flow by means of an arrow should be shown on the body and easily visible under all circumstances, Nominal diameter Nominal Flow rate value – Q3 Class ratio Q3/Q1 Temperature class Serial Numbered Unit of Measurement Maximum Admissible pressure (MAP) Name or trademark of the manufacturer Year of manufacture			
Engraving	Must be ENGRAVED NARUWASCO + Serial number on top of dial to reduce the chance of theft. Failure to engrave shall lead to automatic disqualification			

<p>Additional Non-Technical Requirements</p>	<p>Warranty: The minimum warranty period shall be two years. The supplier must produce a warranty document that shall be signed upon acceptance.</p> <p>The water meter manufacturer must guarantee that the meter will perform at its optimum accuracy throughout its lifespan with only the removal of silt.</p> <p>Manuals: Maintenance & Installation manuals and data sheets (in English) shall be provided.</p>			
<p>Sample</p>	<p>The bidders must submit one (1) non-returnable sample of a meter during delivery of the tender clearly labelled SAMPLE Must be provided (non-returnable).</p> <p>DN 15- 1Nr. Meter</p>			