



MINISTRY OF WATER, SANITATION & IRRIGATION

CENTRAL RIFT VALLEY WATER WORKS DEVELOPMENT AGENCY

CLARIFICATION ON

Tender for

Procurement of Installation Works For Kampi Samaki Water Treatment Plant

Tender No: CRVWWDA/BAR/GOK /KAMPISAMAKI/WP/18/2024-2025

Employer: Central Rift Valley Water Works Development Agency (CRVWWDA), Nakuru, Kenya

FEBRUARY 2025

PROCUREMENT OF INSTALLATION WORKS FOR KAMPI SAMAKI WATER TREATMENT PLANT
TENDER NO. CRVWWDA/BAR/GOK /KAMPISAMAKI/WP/18/2024~2025

Requests for Clarification and Responses – Part 1

No	Request for Clarification	Response
1	Kindly provide us with laboratory raw quality to enable us design appropriate UF and NF Units	The laboratory results are attached.

KEY:	PASS	FAIL	NS - No Standard	ND - Not Detected	TN - Too Numerous	
PARAMETERS		METHOD OF ANALYSIS	UNITS	VALUES	WHO GUIDELINES	REMARKS
PHYSICAL ANALYSIS						
pH	8156		pH Units	8.67	6.5 - 8.50	
TDS	10256		Mg/l	306	<1000	
Total Suspended Solids(TSS)	8006		Mg/l	49	NIL	
Salinity	8160		ppt	0.24	NS	
Electrical Conductivity(EC)	10256		µS/cm	471	<1500	
Turbidity	8237		NTU	61	<5	
Color	8025		PtCo	452	<15	
CHEMICAL ANALYSIS						
Iron, Fe	8008		Mg/l Fe	4.30	<0.30	
Manganese, Mn	8149		Mg/l Mn	0.14	<0.10	
Copper, Cu	8506		Mg/l Cu	0.00	<2.0	
Fluorides	8323		Mg/l F	2.0	<1.5	
*Ammonical Nitrogen	8155		NH3-N	0.00	NS	
*Ammonium	8155		NH4+	0.00	<1.5	
*Ammonia	8155		NH3	0.00	<2.0	
Nitrate N	8039		Mg/l NO3N	1.1	<11.3	
Nitrate	8039		NO3-	5	<50	
*Nitrites	8153		Mg/l NO2	0	<3	
*Nitrite N	8153		Mg/l NO2-N	0.0	<1	
*Potassium	8049		Mg/l K	8	<50	
Phosphates	8048		Mg/lPO ₄ ³⁻	1.42	<0.61	
*Silicon	8185		Mg/l	13	< 50	
*Silica	8185		Mg/l SiO2	27	<107	
Calcium	8204		Mg/l Ca2+	14	<150	
Magnesium	8213		Mg/l Mg2+	0	<100	
Calcium Hardness	8204		Mg/l Ca2+ (CaCO3)	34	NS	
Magnesium Hardness	8213		Mg/l Mg2+ (CaCO3)	2	NS	
Total Hardness	8213		Mg/l CaCO3	36	<300	
Aluminium, Al	8012		Mg/l Al	0.02	<0.10	
Sulphate, SO4	8051		Mg/l SO4	3	<400	
Chlorides	8207		Mg/l Cl	28	<250	
Total Alkalinity	8203		Mg/l CaCO3	174	NS	
Phenolphthalein Alkalinity	8204		Mg/l CaCO3	3	NS	
Bicarbonates	8205		Mg/l HCO3-	168	<255	
Carbonates	8206		Mg/l CO ₃ ²⁻	6	<121	
Barium	8014		Mg/L Ba2+	0	<0.7	
Sodium, Na	8322		Mg/l Na	50	<200	
COMMENTS						
Based on the water analysis, the levels of pH, TSS, Turbidity, Color, Iron, Manganese, Fluorides and Phosphates did not meet WHO limits, therefore, water treatment is recommended.						