

# WATER TREATMENT PLANT AND RETICULATION OF CLEAN WATER AT ELEME COMMUNITY IN RIVERS STATE NIGERIA

A Water and Sanitation, Disease Prevention and Control,  
Community Service project.



# PROJECT OVERVIEW



This project is for the installation of 20,000 Ltrs Braithwaite water treatment tank and reticulation to 4 communities located at Eleme Local Government Area of Rivers State, Nigeria (Agbonchia, Njuru, Akpaka, and Okerewa). The plant and reticulation will be solar powered to address the irregular power supply.

## Impact

1. Improved water quality
2. Reduce waterborne diseases and improve public health.
3. Empower the community through water resources management and income generation by the production and sales of bottled water for sustainability.
4. Job creation and economic growth
5. Disease prevention and control.
6. Community Engagement.

# Summary of Cost



S/N	PROJECT DESCRIPTION	AMOUNT (NGN)	USD of <small>(April RI rate ₦1,537 per US\$1)</small>
1	Water Borehole Drilling	N18,170,000	\$11,822
2	Overhead Tank	N37,350,000.00	\$24,300
3	Water treatment plant	N49,470,000.00	\$32,186
4	Solar Pumps and panels	N49,380,000.00	\$32,128
5	Reticulation	N8,415,000.00	\$5,475
	<b>GRAND TOTAL</b>	<b>162,785,000.00</b>	<b>\$105,911</b>



# Historical Impact of Water Pollution in Eleme

## Decades of water pollution at Eleme LGA

Eleme community has suffered from years of environmental degradation and pollution caused by irresponsible oil exploration activities and unhygienic industrial waste disposal from companies within their environ. This has left their ground water polluted with a cancerous substance called benzine (according to study carried out by UNEP). This project will be a very big relieve for the community as it aims at providing portable water for the citizenry.



Eleme Oil Spill

# Expert pools within our club

❖ The following club members will be bringing their expertise to support the vendor that will be selected, the selection will be by bid and technical competence:

S/N	NAME	QUALIFICATION
1	Rtn. Chris Ugechi	
2	Engr. Emmanuel Ipatt	Construction and Renovarion Enginerring
3	Rtn. Chris Ugoh	Soil survey

# Design considerations for efficient reticulation systems



Evaluating technical specifications for design



Engaging local stakeholders in planning



Environmental impact assessments and regulations



Innovations in water distribution technology



**Thank You**

