

**PROPOSED  
REHABILITATION/REACTIVATION OF  
ABANDONED NDDC BOREHOLE WATER  
SCHEME COMPLETE WITH SOLAR  
POWER AND RECTICULATION**

AT

**ELILE/AMADAKA  
COMMUNITIES IN EASTERN OBOLO L.G.A  
AKWA IBOM STATE**

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**BILLS OF QUANTITIES**

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**CLIENT:**

BOPANE HCDT  
45 AHOADA ST.  
RUMUIBEKWE HOUSING ESTATE  
OFF ABA ROAD, PH  
RIVERS STATE

RC: AK 18989

**CONSULTANT**

MBINTEX KONSULT  
5 MBAJA AVE. OKOROMBOKHO  
Eastern Obolo, Akwa Ibom state



PREPARED BY:  
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NIGERIAN INSTITUTE OF QUANTITY SURVEYORS  
The Professional Construction Cost Managers

**BILL NO. 1: PRELIMINARIES**

COST CENTRE	COMPONENTS	TIME RELATED CHARGES	FIXED CHARGES	TOTAL CHARGES
	<p><b>BILL NO.1 PRELIMINARIES</b>                      Part A: Project Particulars  <b>Name of the Project: Proposed Reactivation of Abandoned NDDC water project at Elile complete with Solar Power and Treatment Plant</b>  <b>Nature of project:</b>                      The project involves; Removal of the existing Submersible Pump, recompression of the well as well as installation of a Solar Pump installation with the necessary panels and accessories, Service Building with perimeter Fence, distillation/Treatment Plant and Water Rectification as well as commissioning and handover.</p> <p><b>Location of project:</b></p> <p><b>Duration of the Project:</b></p> <p><b>Client:</b></p> <p><b>Name of Contractor</b></p> <p><b>Drawings;</b>                      Bills of Quantities:</p> <p><b>Form of Contract:</b></p>	<p>Elile/Amadaka</p> <p>3 months</p> <p>Bopane HCDT</p> <p>Structural and Mechanical Services                      In accordance with BESMM4R                      The Nigerian Construction Industry                      STANDARD FORM</p>		
<p>1.1B                      1.1.1                      1.1.2.06</p>	<p>Part B: Pricing Schedule  <b>EMPLOYER'S REQUIREMENT</b>  <b>Control and Protection</b>                      Multi-service gang- BOPANE Project Unit-12                      Project Monitoring by other approved bodies                      Local Authority Approval/ Logistics                      Stakeholder/Community engagement                      Logistics  <b>Completion and Post- completion Requirements</b>  <i>Handover; Operational logistics after 6months</i></p>	<p>Wks</p> <p>Wks</p>	<p><i>Item</i></p>	<p>1,100,000.00</p> <p>500,000.00</p> <p>1,200,000.00</p> <p><b>3,700,000.00</b></p>
<p>1.1.2.10                      2                      1.1.2.07</p>	<p><b>Design, Approvals and permit</b></p>			<p><b>6,500,000.00</b></p>
	<p><b>EMPLOYER'S REQUIREMENT TO COLLECTION</b></p>			<p><b>6,500,000.00</b></p>

1.1.2	<b>MAIN CONTRACTOR'S COST ITEM</b>			
1.1.2.2.6	Bought- in services			
1.1.2.2.7	Sundries; Main contractor's signboards, safety and information notice boards, fire points, Employer's composite signboards.			Item
1.1.2.03	<b>Temporary Services</b>			
1.1.2.3.1	Temporary Water Supply			Item
1.1.2.3.2	Temporary gas Supply	Wks		
1.1.2.3.3	Temporary electricity Supply			Item
1.1.2.04	Security of Site			
1.1.2.4.1	Security Staff; security guards and Watchmen for 6months		2	Nr
	<b>PAGE 2 MAIN CONTRACTOR COST ITEM TO COLLECTION</b>			

1.1.2.05	<b>Safety and Environmental Protection</b>			
1.1.2.05.1	Community Relation and Engagement  Safety Programme; Notices and information to neighbours; Community relations Safety audits, Staff safety training, ,Personal Protective equipment (PPE) for workers and multi-service gang, Fire points, Temporary fire alarms, Fire estinguishers, Nurse, Traffic Marshals, etc.		Item	
1.1.2.5.1	Barriers and safety scaffolding; guardrails and edge protection, temporary Staircase balustrades,etc.		Item	
1.1.2.5.2			Item	
1.1.2.06	<b>Control and Protection</b>			
1	Survey, Inspections and Monitoring		Item	
2	Setting Out		Item	
3	Samples		Item	
1.1.2.09	<b>Site Records</b>			
1	Site Records; photography, Works Records.		Item	
1.1.2.10	<b>Completion and Post- completion Requirements</b>			
1	Testing and Commissioning plan		Item	
2	Handover		Item	
3	Post- completion Services	Wks		
1.1.2.15	<b>Transportation/Haulage</b> Allow a provisional sum for transortation materials.		Item	
	<b>PAGE 3 TO COLLECTION</b>			
	<b>COLLECTION: PAGE 2 PAGE 3 MAIN CONTRACTOR COST ITEM TO COLLECTION EMPLOYERS COST ITEM</b>			
	<b>PRELIMINARIES CARRIED TO MAIN SUMMARY</b>			

**PROPOSED REACTIVATION EXISTING OMPADEC WATER WITH AN UPGRADE TO SOLAR  
POWERED BOREHOLE/ WATER SCHEME (HYBRID) COMPLETE WITH TREATMENT PLANT AND  
RECTICULATION FOR COMMUNITY IN EASTERN OBOLO L.G.A CLUSTERS OF BOPANE HCDT,  
AKWA IBOM STATE.**

**BILL NO. 2-REACTIVATION OF BORE HOLE**

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<b>WORK BY NOMINATED SUB CONTRACTOR</b>				
	<b>Bore Hole Reactivation(All provisional)</b>				
2B.1.7.2.3	Provide for removal of existing Pump from Well to allow for Well compression Provide for 8 -12hrs well compression and development	12	Hr		
	<b>Sub Total</b>				
	<b>Solar Pump/ Accessories</b>				
	Supply and install 2HP SQ flex GRUNDFOS submersible pump or approved equivalent complete with solar panel	1	nr		
	Provide for well head assembling as per Engineer details.	1	nr		
	Provide for 50mm UPVC risers pipes with couplin and safety rope	70	m		
	Supply and install Sensor kits	2	nr		
	Allow a provisional sum for the supply and installation of Control Panel, mounting of Solar Panels securely on the EWT Structure as well (DC cable panels and Sumo(4mm/6mm) and Surge Protector/Spike Arrestor.		Item		
	<b>Sub Total2</b>				
	<b>Total 1</b>				
	<b>Add for main contractors profit and attendance</b>			5%	-
	<b>TOTAL</b>				-

	<p><b>STANCHION STAND WITH BRAITWEIGHT OVERHEAD TANK</b></p> <p><b>Fittings</b>  450x450x16mm thick, weight125.6kg/m mild steel base plate</p> <p>4000x3250x13mm thick, weight 102.05kg/m chekered plate as bottom to overheaad head tank.</p> <p>Ditto; 13mm thick x102.05kg/m mild steel gupset plate</p> <p>Anchorage and holding down bolt assemblies; 75mm longx16mmDiameter mild steel bolts complete with nuts and washers.</p> <p>Allow a provisional sum for Welding and fabrication of rusted metal plates on Stanchion walk way</p> <p>Repainting of Tank and Chanells</p> <p>Purchase of Bitumen for the floor of the tank incase of leakages</p>	4 nr			
		4 nr			
		0.05 t			
2N1.4.8		16 nr			
			Item		
			Item		
2N1.8	<b>On Site surface treatment</b>				
2N1.8.4	Wire brushing	1000	m <sup>2</sup>		
2N1.8.5	Metal spraying	1000	m <sup>2</sup>		
2N1.8.7	Painting with red /enamel oxide and aluminium paint	1000	m <sup>2</sup>		
	Allow a provisional sum for all pipe work and ancilliaries to provide inlet, outlet, washout and connection to borehole.	1	Item		
	<b>Rehabilitation of Existing Stanchion Stand with BRAITWEIGHT Overhead TANK to Collection:</b>				



	<p><b>Recticulation:</b>  Allow a provisional sum for the supply and installation of service outlets in front of the service Buildings  Supply and install (PPR CT Pipes)- 32mm-50mm diameter, fittings and other accessories in foundation in trenches with necessary excavation and backfilling as required.</p> <p>Ditto; Service outlet points; (PPR CT Pipes) 32mm-50mm diameter in 100mm diameter, 1m high above ground level, filled hollow with weak concrete for stability, with 2 taps, stop cork and bulgage fittings, including provision and placing concrete pavement 1.00mx1.00m to maintain fair finish,as may be required.  Allow a provisional sum for approval logistics and cost to break through access road for pipe mains and make good as required.</p>	1700 m	Item		
	<b>Recticulation to Collection:</b>		Item		



<b>GENERAL SUMMARY PRELIMINARIES</b>				
<b>REACTIVATION OF BORE HOLE</b>				
<b>REHABILITATION OF EXISTING STANCHION STAND WITH BRAITWEIGHT OVERHEAD TANK</b>				
<b>PERIMETER FENCE, SERVICE BUILDING</b>				
<b>GENERATING PLANT</b>				
<b>SOLAR POWER INSTALLATION</b>				
<b>TREATMENT PLANT</b>				
<b>RECTICULATION</b>				
<b>TOTAL TENDER PRICE(EXCLUSIVE OF VAT)</b>				
<b>ADD VAT</b>				
<b>GRAND TOTAL</b>				