

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

AT

**OKOROETE
COMMUNITY IN EASTERN OBOLO L.G.A
AKWA IBOM STATE**

BILLS OF QUANTITIES



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>BILL NO.1 PRELIMINARIES Part A: Project Particulars Name of the Project: Proposed Reactivation of abandoned OMPADEC water project at Okoroete complete with Solar Power and Treatment Plant Nature of project: 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>Location of project:</p> <p>Duration of the Project:</p> <p>Client:</p> <p>Name of Contractor</p> <p>Drawings; Bills of Quantities:</p> <p>Form of Contract:</p>	<p>Okoroete</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 EMPLOYER'S REQUIREMENT Control and Protection Multi-service gang- BOPANE Project Unit-12 Project Monitoring by other approved bodies Local Authority Approval/ Logistics Stakeholder/Community engagement Logistics Completion and Post- completion Requirements <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>3,700,000.00</p>
<p>1.1.2.10 2 1.1.2.07</p>	<p>Design, Approvals and permit</p>			<p>6,500,000.00</p>
	<p>EMPLOYER'S REQUIREMENT TO COLLECTION</p>			<p>6,500,000.00</p>

1.1.2	MAIN CONTRACTOR'S COST ITEM			
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	Temporary Services			
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
PAGE 2 MAIN CONTRACTOR COST ITEM TO COLLECTION				

1.1.2.05	Safety and Environmental Protection			
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	Control and Protection			
1	Survey, Inspections and Monitoring		Item	
2	Setting Out		Item	
3	Samples		Item	
1.1.2.09	Site Records			
1	Site Records; photography, Works Records.		Item	
1.1.2.10	Completion and Post- completion Requirements			
1	Testing and Commissioning plan		Item	
2	Handover		Item	
3	Post- completion Services	Wks		
1.1.2.15	Transportation/Haulage Allow a provisional sum for transortation materials.		Item	
	PAGE 3 TO COLLECTION			
	COLLECTION: PAGE 2 PAGE 3 MAIN CONTRACTOR COST ITEM TO COLLECTION EMPLOYERS COST ITEM			
	PRELIMINARIES CARRIED TO MAIN SUMMARY			

**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
	WORK BY NOMINATED SUB CONTRACTOR				
	Bore Hole Reactivation(All provisional)				
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		
	Sub Total				
	Solar Pump/ Accessories				
	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		
	Sub Total2				
	Total 1				
	Add for main contractors profit and attendance			5%	-
	TOTAL				-

	<p>STANCHION STAND WITH BRAITWEIGHT OVERHEAD TANK</p> <p>Fittings 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			
2N1.4.8		4 nr			
		0.05 t			
		16 nr			
			Item		
			Item		
2N1.8	On Site surface treatment				
2N1.8.4	Wire brushing	1000	m ²		
2N1.8.5	Metal spraying	1000	m ²		
2N1.8.7	Painting with red /enamel oxide and aluminium paint	1000	m ²		
	Allow a provisional sum for all pipe work and ancilliaries to provide inlet, outlet, washout and connection to borehole.	1	Item		
	Rehabilitation of Existing Stanchion Stand with BRAITWEIGHT Overhead TANK to Collection:				

	<p>Recticulation: 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		
	Recticulation to Collection:		Item		

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