

CAMEROON BAPTIST CONVENTION (CBC)

**NSO FIELD
TOBIN ASSOCIATION**

ABUNDANT LIFE BAPTIST CHURCH TOBIN, KUMBO

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BOREHOLE WATER DEVELOPMENT PROJECT

Project Proposal

October 2022

SUMMARY

Project Description	Project Title	Project Sector	Project Duration
	Tobin Borehole Water Development Project	Portable Water	6 months
Description of Project Area	Quarter	Village	Division, Region, Country
	Bajing	Kumbo	Bui, North West, Cameroon
Description of Project Owner	Name of project owner	Status	Registration Number
	Abundant Life Baptist Church Tobin, Kumbo	Religious Denomination	
Project Beneficiaries	Communities	Estimated Number of Individuals	Estimated Number of Households
	Bajing and environ (Tooy, Firkov, Njavnyuy, Jerron, Nsame)	5.000	600
Total Cost of Project	Amount in Figure (FCFA)	Amount in Words (FCFA)	
	10,931,030	Ten million nine hundred and thirty-one thousand and thirty	

1. INTRODUCTION

1.1. GEOGRAPHICAL LOCATION OF TOBIN

Kumbo is the second-largest city in the North West Region of Cameroon and the headquarter of Bui Division. It lies about 2000 m above sea level and is situated approximately 110 km away from the regional capital Bamenda, on the Bamenda Highlands Ring Road. Kumbo has a population of 80 212 at the 2005 Census and is split into three distinctive hilly settlements: Tobin, Mbveh, and Squares.

1.2. SOCIO-ECONOMIC AND DEMOGRAPHIC CHARACTERISTICS OF TOBIN

Tobin is a fast-growing cosmopolitan quarter in Kumbo. This quarter is estimated to host some ten thousand inhabitants made up of civil servants, farmers and business men and women of all walks of life in a dispersed settlement. It is the administrative headquarter of Kumbo by virtue of its numerous offices and public, confessional and lay private institutions among which are: the Senior Divisional and the Divisional Offers Services, the Municipal Council, 5 educational establishments (3 nursery and primary, 2 secondary and high, and 1 teacher training institution), 1 health centre, 1 hotel, 1 Mosque, 4 Churches, and the list continues. It is at the heart of Tobin, also known as Bajing, that Abundant Life Baptist Church Tobin is situated.

1.3. DESCRIPTION OF PROPOSED PROJECT SITE

The Tobin Borehole Water Development Project will be constructed in the courtyard of Abundant Life Baptist Church Tobin with boundary neighbours being the Bui High Court at the adjacent and the Tourists Hotel on the other side of a dividing road. This site is situated 200 meters from Tobin Roundabout at the way-in side and 200 meters from Mosque at the way-out side of Bajing in Tobin. Bajing is a miniature sub-quarter within Tobin which is thickly populated with state functionaries, business persons, farmers, students, and job-seeking graduates.

1.4. CONTEXT AND JUSTIFICATION OF PROJECT

The problem of water scarcity has been existing in Tobin for over a decade now when the over-aged Kumbo Water (KW) meant to supply the households at the time of construction could no longer meet the needs of large and fast-growing population. Besides, the iron pipes conveying the precious liquid from the catchment tank from up

the Tooy hill to popular points and some wealthy individuals' homes have been wearing and tearing over time to the extent that whenever the scarce liquid is flowing, it was tainted brown with iron rust. Before the outbreak of the Anglophone Crisis in 2016, the Kumbo Water Authority (KWA), a body that is in charge of repairs, maintenance and treatment of the water could not do much more than repair broken pipes and add detergents in the water. Able people go for bottled water (*Tangui, Supermont*, etc) and have their way out. Some buy household-size water filters and could at least collect and filter the water before using. But, the low-class are damned to consume the water as polluted as it is, pay bills to the water authority at the end of the month, then get themselves treatment of waterborne diseases especially typhoid fever. Scared of the colour and odour of the pipeborne water, some individuals and households do fetch water from the lone stream popularly called 'the River Bui' that cuts across the town. But it is in the same river that most household and even township wastes are poured. Since the eruption of the Anglophone Crisis in October 2016 and the frequent deadly confrontations between security forces and the 'boys in the bushes', the problem of water insecurity in Kumbo as a whole and in Tobin in particular has grown worse as the personnel of the KWA are not able to access strategic water catchments for pipe maintenance or water treatment, fear of being caught in a crossfire. Taps have gone dry and the population is experiencing a veritable nightmare.

1.5. PRESENTATION OF PROJECT OWNER AND TEAM

Abundant Life Baptist Church Tobin exists not only to ensure the spiritual welfare of individuals, groups and populations but also that their physical and psychosocial needs are met. We believe that man without a healthy spirit in a healthy mind in a healthy body is incomplete. It is on this backdrop that we have decided to take action to meet a physical need of the people of Tobin through the provision of portable water.

1.6. SWOT ANALYSIS

- **Strength:** Abundant Life Baptist Church Tobin is a legal entity and doubles as a corporate Christian body which is reputed for financial integrity and accountability. We are also endowed with technocrats of several walks of life and plenty of unskilled labour. Hence, the success of a project of this magnitude and significance is guaranteed.

- **Weakness:** our church's coffers are lean due to the economic hardship imposed by the war in the region so, we may not be able to contribute a significant amount towards the realisation of this project.
- **Opportunities:** neither the military nor the 'boys' fighting confront community development projects; rather, community development initiatives are encouraged during this crisis moment to provide relief to the suffering masses.
- **Threats:** dramatic hikes in the prices of goods, especially of building materials, is rampant; insecurity due to the Anglophone crisis and bad roads may be injurious to the project implementation.

1.7. GENERAL OBJECTIVE

Provide clean, portable water to at least 600 households in Tobin by July 2022

1.8. SPECIFIC OBJECTIVES

- Objective 1: within 5 days, construct a 6 000 cubic meters water tower for the borehole water system
- Specific objective 2: within 3 days, drill and tube a 100 meters-deep hole capable of producing at least 6 000 cubic meters of clean portable water daily.
- Objective 3: within 3 days, install a solar electricity power system for pumping the water into a tower tank
- Objective 4: within 5 days, pipe the water to water points in Abundant Life Baptist Church Tobin and Tobin Round About
- Objective 5: educate the community on proper use of the Tobin Borehole Water

2. ACTIVITIES

2.1. Activities planned under objective 1

- Mobilisation of project team and working session to share project objectives and attribution of responsibilities
- Purchase/assembly of materials for the water tower
- Construction to completion of the water tower

2.2. Activities planned under objective 2

- Purchase/assembly of accessories for drilling the borehole
- Drilling and tubing to completion of the borehole
- Collection of a sample of the water and empirical verification of its suitability for human consumption

2.3. Activities planned under objective 3

- Purchase/assembly of materials for solar electricity power system for pumping the water into a tower tank
- Installation to completion of the solar electricity power system for pumping the water into a tower tank

2.4. Activities planned under objective 4

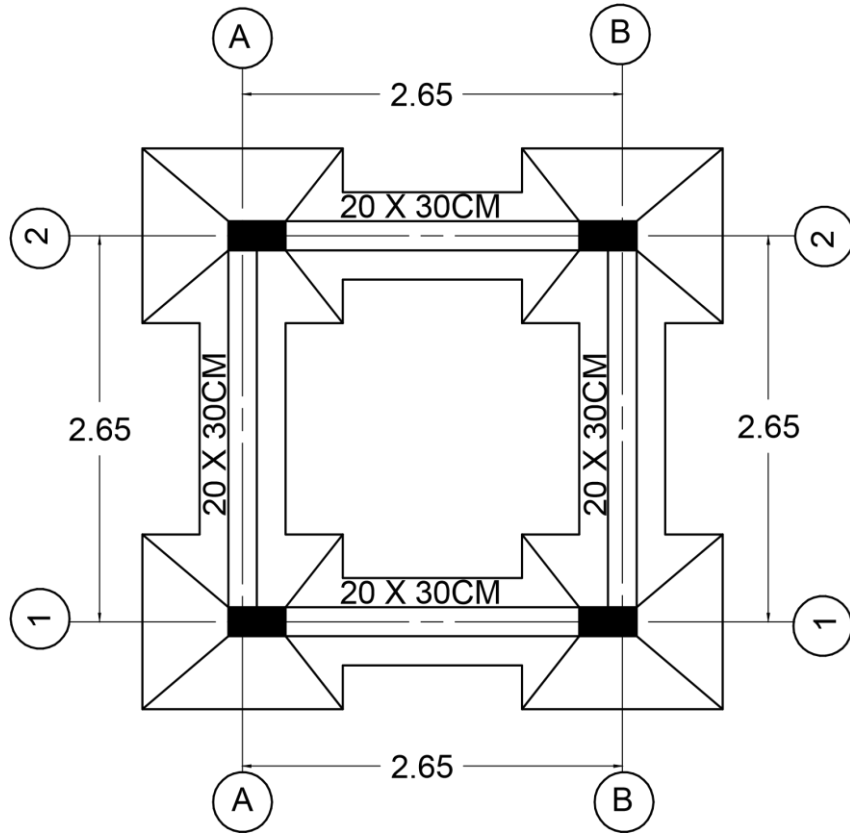
- Purchase/assembly of accessories for piping the water to water points in Abundant Life Baptist Church Tobin and Tobin Round About
- Piping to completion of the water to water points in Abundant Life Baptist Church Tobin and Tobin Round About

2.5. Activities planned under objective 5

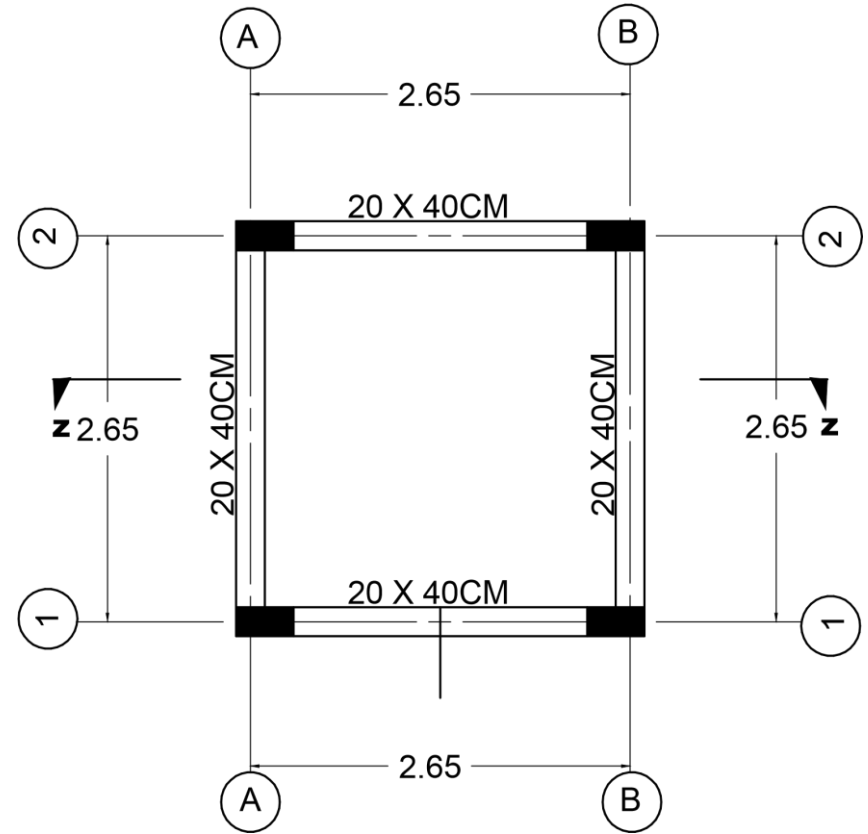
- Official reception of the completed project and handover to the beneficiaries
- Workshop to educate the community on proper use of the water source
- Designation of the management committee for the water
- Submission of the report of monitoring and evaluation

3. DESIGN AND COST ESTIMATE

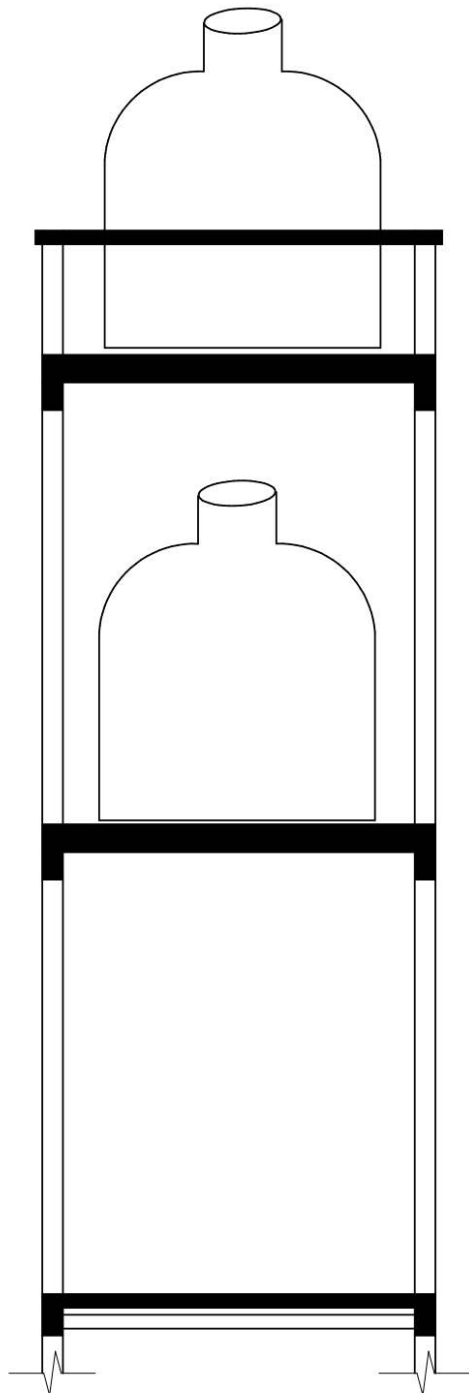
3.1. DESIGN: WATER TANK STAND



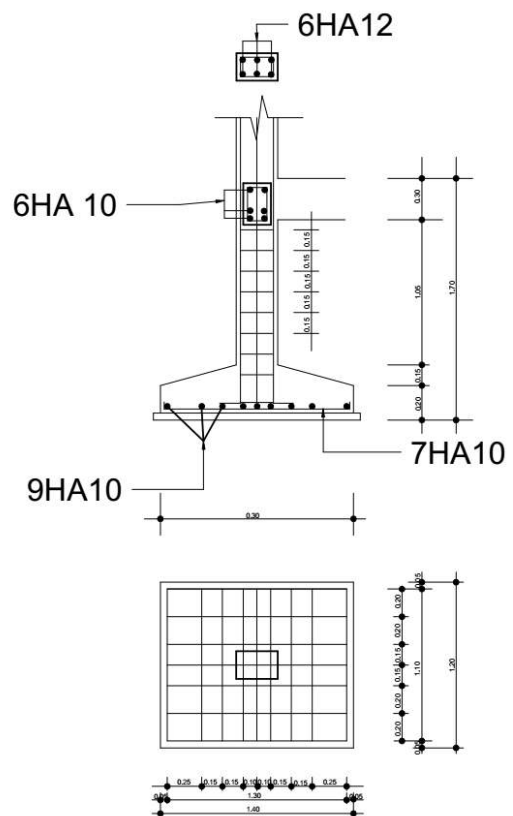
FOUNDATION PLAN



FORM WORK PLAN



SECTION Z - Z



FOOTING REINFORCEMENT

3.2. COST ESTIMATE

S/N	DESCRIPTION	UNIT	QTY	UNIT COST	TOTAL COST
I	PRELIMINARIES				
I.1	For materials, erection and dismantling of scaffolding for the entire structure	SUM	1	50,000	50,000
	Subtotal 1				50,000
II	FOUNDATION WORKS/EARTH WORK				
II.1	Excavation of pits for isolated footings	M ³	11.42	1000	11,420
II.2	Level and compact bottom of excavation to receive foundation concrete	M ³	6.72	500	3,360
II.3	Filling arising from excavated materials and compacted in layers of 15cm	M ³	372	500	186,000
	Subtotal 2				200,780
III	FOUNDATION CONCRETE WORK				
III.1	Lean concrete dosed at 150kg/m ³	M ³	0.35	50,000	17,500
III.2	Reinforced concrete for footings dosed at 350kg/m ³	M ³	2.35	100,000	235,000
III.3	Reinforced concrete for columns under foundation dosage at 350kg/m ³	M ³	0.364	100,000	36,400
III.4	Reinforced concrete for ground beam dosed at 350kg/m ³	M ³	0.867	100,000	86,700
III.5	Backfilling and compaction	M ²	7.7	500	3,850
III.6	Over-site concrete of 5cm thick dosed at 250kg/m ³	M ³	0.31	60,000	18,600
	Subtotal 3				398,050
IV	GROUND FLOOR				
IV.1	CONCRETE WORK IN SUPPER STRUCTURE				
IV.2	Reinforced concrete for columns dosed at 350kg/m ³	M ³	0.77	100,000	77,000
IV.3	Reinforced concrete for beams dosed at 350kg/M ³	M ³	0.89	100,000	89,000
IV.4	Reinforced concrete for solid slab	M ³	1.68	100,000	168,000
	Subtotal 4				334,000
V	FIRST FLOOR				
V.1	CONCRETE WORK IN SUPPERSTRUCTION				
V.1	Reinforced concrete for columns dosed at 350kg/m ³	M ³	1.02	100,000	102,000
v.2	Reinforced concrete for beams dosed at 350kg/M ³	M ³	0.89	100000	89,000
v.3	Reinforced concrete for solid slab	M ³	1.18	100000	118,000
	Subtotal 5				309,000
VI	SECOND FLOOR				
VI.1	CONCRETE WORK IN SUPPERSTRUCTION				
VI.1	Reinforced concrete for columns dosed at 350kg/m ³	M ³	1.02	100,000	102,000

VI.2	Reinforced concrete for beams dosed at 350kg/M ³	M ³	0.89	100000	89,000
VI.3	Reinforced concrete for solid slab	M ³	1.18	100000	118,000
VI.4	Labour for construction	sum	1	150,000	150,000
	Subtotal 6				459,000
V11	PLUMBING SERVICES				
V11.1	Diameter 32 adaptor pressure	NO	5	800	4,000
V11.2	Diameter 32 elbow pressure	NO	9	800	7,200
V11.3	Pressure gate valve diameter 32	NO	2	3500	7,000
VII.4	None return valve brass 1"	NO	1	5000	5,000
VII.5	Diameter 32 pressure pipe full length	NO	5	3500	17,500
VII.6	Tin geba joint	NO	1	3500	3,500
VII.7	Roll herms	NO	1	1000	1,000
VII.8	Plumbing accessories	sum	1	25,000	25,000
VII.9	Water filters	NO	1	25,000	25,000
VII.10	Plastic water tanks (6m ³)	NO	2	500,000	1,000,000
	Subtotal 7				1,095,200
VIII	ELECTRICAL SERVICES				
VIII.1	Solar panel	sum	1	1,500,000	1,500,000
VIII.2	4mm cables in three colours	rolls	6	25,000	150,000
VIII.3	Contacteur D25	No	1	5,000	5,000
VIII.4	Breaker 16amp	No	1	5,000	5,000
VIII.5	Flute switch	No	1	15,000	15,000
VIII.6	Solar panel installation	sum	1	60,000	60,000
	Subtotal 8				1,735,000
IX	DRILLING OF THE HOLE				
IX.1	Drilling of the hole 100m deep	sum	1	5,500,000	5,500,000
ix.2	Water pump	sum	1	700,000	700,000
ix .3	Pump installation	sum	1	50,000	50,000
	Subtotal 9				6,250,000
X	OTHERS				
1	Transportation of materials and equipment from market to site	sum	1	25,000	25,000
2	Light refreshment during meetings and ceremony	sum	1	50,000	50,000
3	Monitoring and evaluation	sum	1	25,000	25,000
	Subtotal 10				100,000
GRANDTOTAL					10,931,030

Ten million nine hundred and thirty-one thousand and thirty francs cfa

NB: Abundant Life Baptist Church Tobin will raise 1 500 000 (one million five hundred thousand) fcfa which is 13.7 % of the Total Cost.

4. IMPLEMENTATION AND MAINTENANCE PLAN

4.1. IMPLEMENTATION AND MAINTENANCE COMMITTEE

N0	Name	Qualification	Function
1	Rev. NGENGE Caleb	Master of Arts, theology	Reverend Pastor. Implementation Committee Chairperson
2	Mr. Nyuydzele Abel	Civil Engineering Technician	Contractor/consultant/lead implementation technician
3	Mrs Fanfon Susan	Finance Clerk	Finance and logistics manager
4	Mr Ndzi James	Patriarch, church senior church elder	Monitoring and Evaluation officer

4.2. PROJECT PLANNING, FUNDRAISING AND IMPLEMENTATION TIMELINES

- **Project Planning and fundraising timeline: May 2022 to March 2023**
 - Situation analysis and validation of project idea: May 2022
 - Development of project document: June to August 2022
 - Constitution of project team/stakeholder: September 2022
 - Resources mobilisation (Fundraising): November 2022 to March 2023 (5 months)

- **Project implementation timeline: 1 –29 April 2023**

Activity	April 2023																
	1	2	4	5	6	7	8	9	11	12	13	14	15	26	18	29	
Meeting of project team, sharing project objectives and attribution of responsibilities																	
Purchase/assembly of materials for the water tower at the site																	
Construction to completion of the water tower																	
Purchase/assembly of accessories for drilling the borehole																	
Drilling and tubing to completion of the borehole																	
Collection of a sample of the water and empirical verification of its suitability for human consumption																	
Purchase/assembly of materials for solar electricity power system for pumping the water into a tower tank																	
Installation to completion of the solar electricity power system for pumping the water into a tower tank																	
Purchase/assembly of accessories for piping the water to water points																	
Digging of pipeline/piping to completion of the water to water points in Abundant Life Baptist Church Tobin and Tobin Round About																	
Workshop to educate the community on proper use of the Tobin Borehole Water																	
Designation of the water management team																	
Official reception of the completed project and handover to beneficiaries																	
Report of the monitoring and evaluation committee																	

5. COST-BENEFIT ANALYSES

The Tobin Borehole Water project is resources-demanding and labour-intensive: nearly 11 million francs cfa, requiring expertise in civil engineering, hydrology, electricity, project cycle management, etc. However, the benefits that will be derived from the project supersedes the investment cost in the long-term because no liquid on earth can replace or guarantee health and wellbeing as much as the precious life-sustaining liquid, water.

6. ANTICIPATED IMPACT

Upon completion, the Tobin Borehole Water project is anticipated to impact the community as follows:

- Decrease in the prevalence of waterborne diseases (typhoid, cholera) and thousands of users experience good health and wellbeing
- Improved environmental, water hygiene and sanitation (WASH)
- Improved standards of living as users experience decreased expenditure on portable water

7. MONITORING AND EVALUATION

From conception to planning to implementation and sustenance, the Tobin Borehole Water Project will be closely monitored by an expert in monitoring and evaluation working synergistically with management committee. Reports of the monitoring and evaluation shall be submitted every 6 months and adjustments made to keep the water flowing and as close to its original state as possible. Abundant Life Baptist Church Tobin shall put in place a special fund for regular maintenance and repairs, in case of any damages cause to the water source.

CONCLUSION

This project aims at constructing an over 100 meters deep borehole equipped with a 6 000 cubic meter reservoir to supply clean portable water to at least 600 households in and around Tobin Quarter in Kumbo in the Bui Division of the North West Region of Cameroon. This project is estimated to cost XAF 10 931 030 (Ten million nine hundred and thirty-one thousand and thirty francs cfa) at completion. Coming at a time when the country is witnessing sporadic outbreaks of cholera disease, the *Borehole Water Project* will go a long way to relieve the over 5 000 individuals of the burden of water scarcity and to ensure good health and wellbeing for all. This will contribute towards the attainment of the United Nations Sustainable Development Goal number 2, the National Development Agenda (Cameroon's Vision 2035), and local development plan for Kumbo Municipal Council.