

## **WATER SUPPLY PROJECT IN THE JASIKAN DIOCESE OF GHANA: NYAMBONG TOWN COMMUNITY AND DISTRICT ASSEMBLY (D/A) BASIC SCHOOLS**

Nature of Project: Drilling, mechanization, and water supply.

Beneficiary community: Nyambong Roman Catholic community, Nyambong town community, and D/A Basic schools.

Total population of community: Three thousand five hundred (3,500).

Estimated number of beneficiaries: Nyambong Roman Catholic community, Nyambong town community and D/A Basic schools with a population of Three thousand five hundred (3,500).

Scope of project: Drilling, mechanization, and distribution.

Total cost of project: 63,919.00/USD 5,500.43.

Observations: The Nyambong community and Basic schools (kindergarten, primary and Junior High School) is located in the Nkwanta South District in the Oti Region of Ghana. The community has a population of three thousand five hundred (3,500) people. For water supply, the community depended on streams and a dam constructed through communal labour. But the dam and streams dry up during the dry season. As the community shares its water sources with goats, sheep and bush animals, pollution occurs with the attendant water borne diseases such as dysentery, typhoid, worm infestations and diarrhea. These water borne diseases get worse during the dry season when the streams and dam dry up. The Ghana government has in the past years provided one hand pump and one mechanized borehole. However, due to poor hydrogeological survey, the mechanized borehole has dried up. The remaining hand pump borehole left has very low water yield that is insufficient for the needs of the people of Nyambong. As a result, most of the population has gone back depending on nearby streams and the polluted dam. If this project is granted, the Nyambong town community and Basic schools will be enjoying reliable water supply and a life free from water borne diseases. The time spent collecting water from the low yielding hand pump borehole will be reduced. A water collection point with five supply points will be required for public use.



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**ESTIMATES OF NYAMBONG BOREHOLE PROJECT  
CONSTRUCTION MATERIALS (POLYTANK ELEVATION)**

QUANTITY	GHS UNIT PRICE	AMOUNT
28 bags cement	85.00	2,380.00
2 packet 3" nail	90.00	180.00
2 packet 4" nail	90.00	180.00
1 packet 6" nail	70.00	70.00
1 coil binding wire	120.00	120.00
½ trip wheeler chipping, 22 cubit	2,000.00	2,000.00
1½ trips plastering sand	300.00	450.00
1 ½ trips concrete sand	900.00	1,350.00
Tilling material at water collection point		2,250.00
2 donor plaques	400.00	800.00
<b>TOTAL</b>		<b>9,780.00</b>

**ELECTRICAL MATERIALS**

QUANTITY	GHS UNIT PRICE	AMOUNT
1 coil 2.5mm three flexible	1,520.00	1,520.00
10 pieces PVC conduit	25.00	250.00
1 piece RCCB 63 A 30MA Valve single phase	450.00	450.00
1 100m HDPE 25m	1,250.00	1,250.00
2 pieces 6 feet earth rod copper	310.00	620.00
2 pieces 18 x 20 distribution board	300.00	600.00
1 piece 30 watt led light	380.00	380.00
4 pieces 110=150 junction box	110.00	440.00
1 well head set/rope		540.00
Meter & electrical connection	1,520.00	1,520.00

<b>TOTAL</b>		<b>7,570.00</b>
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### PLUMBING INSTALLATION MATERIALS

QUANTITY	GHS UNIT PRICE	AMOUNT
10 pieces 1" PVC pipe interplast	85.00	850.00
4 pieces ¾ " PVC pipe	70.00	280.00
3 pieces 4" PVC Pipe	95.00	285.00
4 pieces NON return valve	96.00	384.00
5 pieces 1"x 3/4 bushin	10.00	50.00
2 pieces ¾ tap	60.00	120.00
10 pieces bend ¾ bend	8.00	80.00
10 pieces 1" bend	10.00	100.00
10 pieces 1" Tee	8.00	80.00
4 Tin sioo glue	60.00	240.00
4 pieces PVC union	50.00	200.00
3 Tin Tangit glue	70.00	210.00
15 pieces 20 mm SADDLY CLIP	10.00	150.00
15 pieces 1" valve socket	10.00	150.00
5 pieces ¾ valve socket	8.00	40.00
1 polytank (6,000 liters)	6,400.00	6,500.00
<b>TOTAL</b>		<b>9,719.00</b>

### WOOD AND IRON RODS FOR Pillars

10 pieces 16mm iron rod	130.00	1,300.00
20 pieces 14 MM iron rod	75.00	1,500.00
15 pieces 3/8 IRON rod	30.00	450.00
20 pieces 2 x 6 wawa wood	52.00	1,040.00
6 pieces 2/4 wawa wood	85	510.00
Material conveyance	3,200.00	2,200.00
<b>TOTAL</b>		<b>7,000.00</b>

**Labour**

**6,800.00**

**SUMMARY**

ITEM	TOTAL CONSTRUCTION
Construction materials (polytank elevation)	9,780.00
Hydrological survey	2,500.00
Borehole drilling and construction	17,000.00
1.5 HP Submersible pump	3,550.00
Electrical materials	7,570.00
Plumbing Installation Materials	9,719.00
Wood and Iron rods for pillars	7,000.00
Labour	6,800.00
TOTAL	63,919/ US\$ 5,500.43

**Total amount requested: GHS 63,919.00/USD 5,500.43**



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