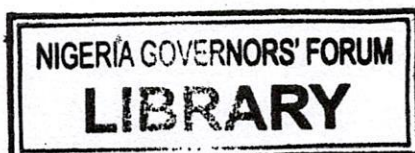


## ADAMAWA STATE WATER BOARD

State Population	-	3,768,101 (2006 Census)
Total Water demand	-	380 million litres per day
% of demand met	-	171 million litres per day
Water demand gap	-	209 million litres per day
Jimeta population	-	295,580
Jimeta water demand	-	46,11 million litres per day
Jimeta water production	-	18 million litres per day
Jimeta demand gap	-	28,11 million litres per day
Yola population	-	111,545
Yola water demand	-	18,74 million litres per day
Yola water production	-	15 million litres per day
Yola demand gap	-	3.74 million litres per day
Educational Institutions	-	About 65% connection to public Water supply system (Urban Secondary Schools, & Tertiary Institutions)
	-	About 25% Access to water supply system (Rural Primary & Secondary schools)



## YOLDE – PATE WATER SUPPLY

### PROJECT HISTORY, CONCEPT AND OBJECTIVE

Yolde Pate is a sub-urban community of Yola metropolis in Yola South LGA. It is a community with an estimated population of 10,000 – 15,000 inhabitants. Because this community is not covered with water supply from the treatment plant, it was suggested and accordingly proposed that an immediate solution be provided to address the water shortage experienced in the community as it hitherto depended on a single borehole and few protected dug wells.

As a fast trade therefore, a water scheme with the following details was established:

- Drilling of two (2) high yield 200mm industrial boreholes with a capacity of 50,000 litres per hour
- Provision of 5km distribution network using 100mm high pressure UPVC pipes with provision for further expansion in the future.
- Provision of eight public stand taps at strategic locations
- Provision of 90,000 litres capacity pre-stressed steel overhead tank to ease water supply distribution.
- Connection of water facility to PHCN, power source with a dedicated 11/0415KV/100KVA power transformer
- Provision of 60KVA standby generator for power supply in the event of power outage from PHCN.
- Fencing of the facility to provide security to installation
- Provision of office accommodation for operating staff

## **SYSTEM CAPACITY AND LIMITATION**

The scheme established is capable of producing 50,000 litres per hour. For 18 hours operation per day, it will produce 900,000 litres. This is subject to steady power supply. The distribution network provided is to extend water supply from the source up to the primary and secondary lines along major roads and selected streets only. The responsibility of household connection is to be borne by consumers wishing to get connected to the system upon formal application and meeting established guidelines.

## **PROJECT EXECUTION**

The project was executed partially through contract and partially on direct labour.

## **EXECUTION PERIOD:**

The completion period for this project is 4 months.

## JIPPU – JAM WATER SUPPLY

Jippu – Jam water supply scheme was established in 2008 to address water problem of Dodore area of Yola town. The scheme consists of the following facilities:

- Drilling of two (2) high yield industrial boreholes complete with pumping equipment
- Construction of 300m<sup>3</sup> (300,000 litres ground level storage tank) on 1.0m reinforced concrete short column.
- Connection of facility to PHCN power source with 33KV dedicated 200KVA 33/0.415 KV power transformer.
- Construction of Generator House and control room
- Provision of office accommodation for operating staff
- Rehabilitation of 4km using 150mm and 100mm UPVC high pressure pipes
- Installation of 2No. 37kw horizontal centrifugal booster pumps.
- Procurement and installation of 60KVA standby generator
- Fencing of the pumping station using block work.

The scheme was completed within 4 month.

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