





# KUNNY CONNECTION INNOVATIVE TECHNOLOGY FOR NON REVENUE WATER REDUCTION

BY

ENGR. HENRY ADIRUO MNSE, MNAHS

HEAD, WATER SERVICES DEPARTMENT

# INVENTION ON NEW WATER CONNECTION METHOD ON UNPLASTICIZED POLYVINYL CHLORIDE (UPVC) PIPES WITHOUT SADDLE CALLED "KUNNY CONNECTION"

#### WHAT IS KUNNY INNOVATION?

- The KUNNY CONNECTION is a strategic innovation on the New Water Connection method on the UPVC Pipes without saddle.
- The connection is a fast way or means of connecting pipes to the UPVC water pipeline without the use of saddle.
- The saddle is no longer needed
- \* Kunny Connection can also be carried out on the HIGH DENSITY POLY ETHLENE (HDPE) Pipes without the use Tapping Saddle

#### AIMS / OBJECTIVES AND BENEFITS OF THE KUNNY CONNECTION

- Kunny Connection will reduce water theft and illegal connection (NRW)
- Kunny Connection will reduce financial burden on the customers.
- Kunny Connection will enhance and increase the water connections in the utility
- The connection doesn't require digging or opening of the entire pipe circumference
- It will make safely managed water affordable and accessible to the people
- The Kunny Connection method is an innovation to help humanity
- It is aimed at complementing and sustaining the investment and good work of our development partners

#### **ESSENCE OF KUNNY CONNECTION**

Reason for the Kunny Connection

"Philip Kotler in his famous work argued convincingly that every organisation must either innovate or perish. Reform or innovation to improve performance is part of everyday management"

# INADEQUACIES OF CONNECTION PATTERN AND PROCESS (SADDLE) BEFORE KUNNY CONNECTION

- It limits pressure and requires excavation of the entire circumference
- It is more expensive compared to Kunny Connection
- No time efficient
- Can deform that pipe and take it out of round
- Stressful excavating the entire circumference of the pipe

## PROGRESS SO FAR

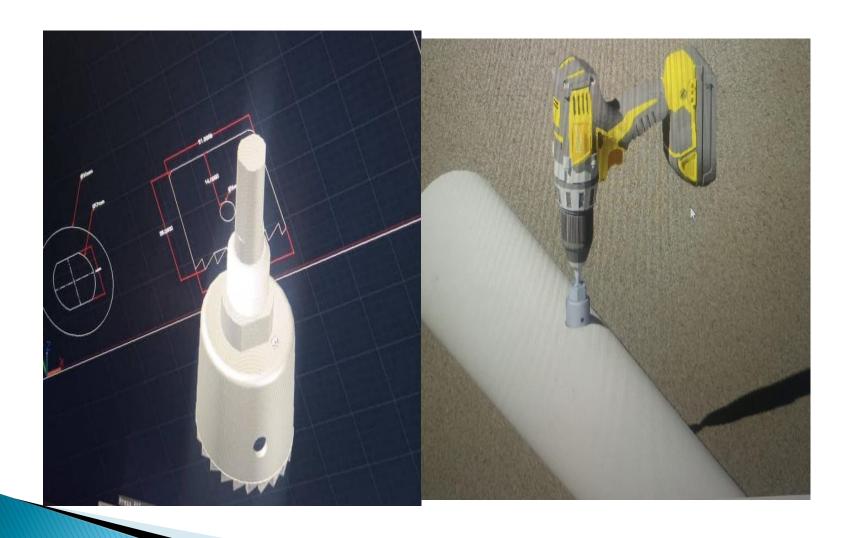
Kunny connection has been used to connect 12 customers in Owerri Urban and Ekenguru Water Scheme.

#### THE KUNNY CONNECTION PROCESS MECHANISM

#### **FUNCTIONALITY**

- The Drilling Machine
- The Drilling Bits and Circular hole cutter
- Threaded Steel Socket an Handle

### **FUNCTIONALITY**















#### CONCLUSION

The Kunny Connection is one of the simplest innovations that have been introduced for good pipe connections in recent times. It is cost effective, very easy to install, time efficient, it will reduce illegal connection and water theft (Non revenue Water), increase customer connections and increase the utility customer base and revenue. This innovative technology is inline with ISWSC Vision "To Be The Most Innovative Water and Sewerage Utility in Africa"

#### THANK YOU