

# STATE WIDE DRINKING WATER SUPPLY GRID

Deepak Ramchandani

## History of water supply department:-

India got independence in on 15th August 1947 and first Division Office **at Surat** was established from **4th September 1947** and at that time Shri N.B.Kundalkar was the Executive Engineer.

The first jurisdiction of the Surat Division was from Thane ( Maharashtra) to Kachchh ( Gujarat)

Circle office was at Pune and Chief Engineer's office was in Bombay ( now Mumbai).

There were sub divisions in the jurisdiction of Baroda Estate and one sub division was also in Dwarka and Navsari also.

The basic work under this Division was Individual water supply schemes and also support to local bodies for water supply scheme was provided.

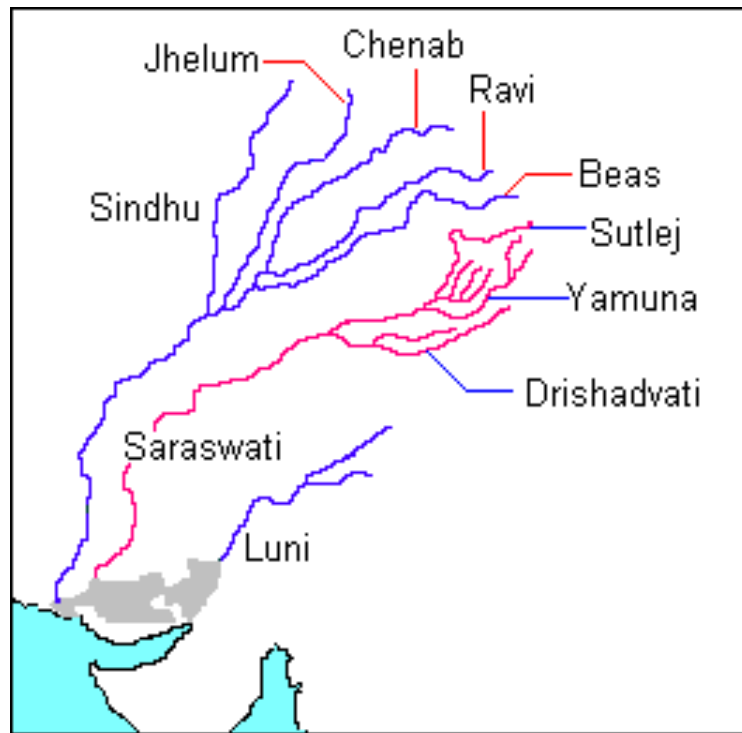
Just after independence another Division in Rajkot was opened and there after Jamnagar was opened. Division in Junagadh was opened in year 1954 and thereafter Bhavnagar Division was opened.

## Creation of Gujarat Water Supply & Sewerage Board:-

Gujarat water supply & sewerage board was constituted vide Gujarat **Act No.18 of 1979**. After receiving assent of the President it was published in the Gujarat Government Gazette on **6th June 1979**

### **Perceptible systemic changes in drinking water supply sector through implementation of "State-wide Drinking Water Supply Grid"**

*"Everything in the nature changes" this is known as law of nature. Gujarat had been prosperous state since ancient history this is proved by exploring ancient civilization in Lothal and Dhoravira. Due to law of nature there were many geographical changes which had result in **loss of perennial rivers** such as **Saraswati, Luni and Indus**. This has resulted into Gujarat State a water scare area."*



Vedic Saraswati as drawn by Valdiya

The Paradigm shift by switching over from excessive dependency on ground water to surface water by developing extensive and robust infrastructure in the form of **“State wide Drinking Water Supply Grid”**.

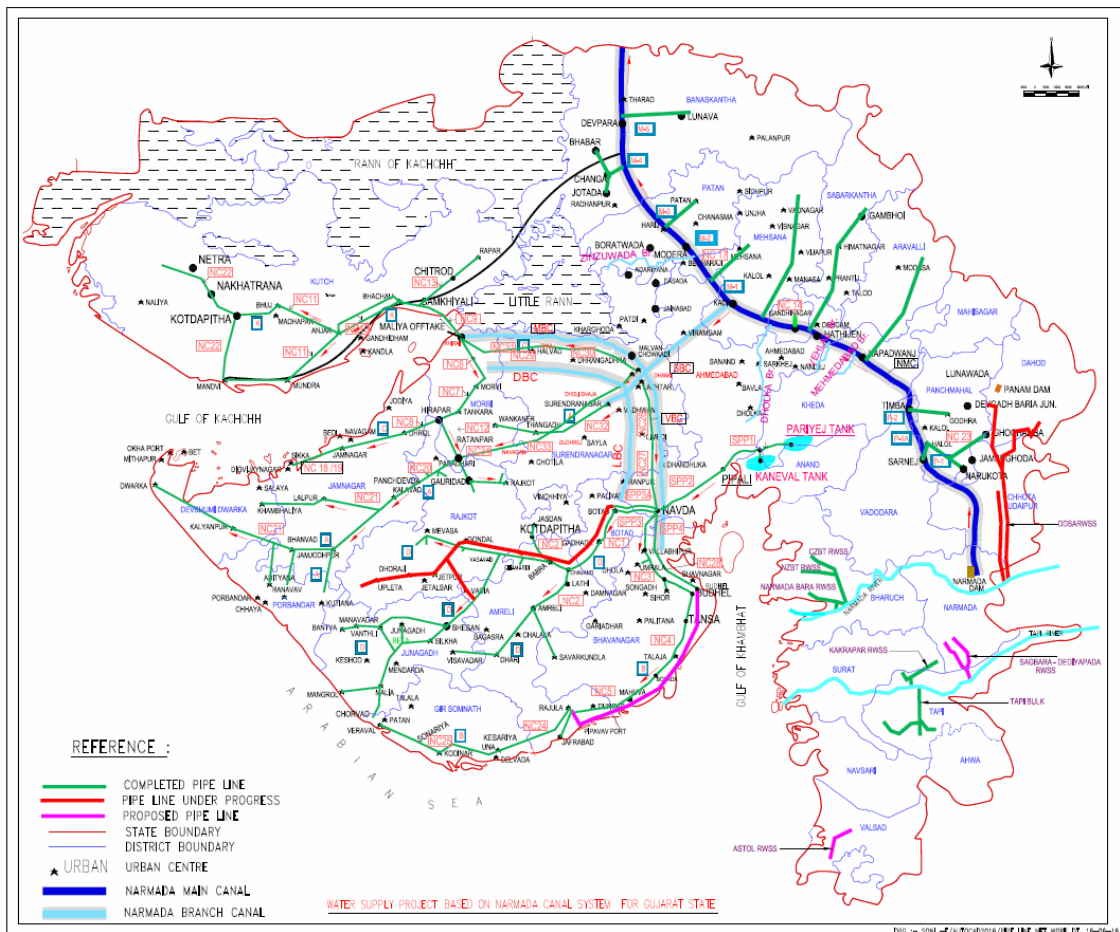
**“Grid has finally contributed in peace, harmony, promotion of inclusive growth, equitable development and widespread improvement in people well being and quality of life – Thus, State wide Drinking Water Supply Grid is ensuring happiness.”**

### **Creation of State Wide Drinking Water Supply Grid:-**

- The Government of Gujarat has started the implementation of the drinking water supply master plan based on Sardar Sarovar Narmada Canals in July'1999 in 15 districts i.e. Amreli, Bhavnagar, Junagadh, Porbander, Rajkot, Jamnagar, Kachchh, Surendranagar, Ahmedabad, Gandhinagar, Mehsana, Patan, Banaskantha, Sabarkantha and Panchmahal districts to supply Narmada water to 8215 villages & 135 towns by laying 2700 Kms. Bulk Water Transmission pipelines in the project area. The coverage under Master Plan was revised to 9633 villages and 131 towns in year 2004

## Implementation agencies of Narmada Master Plan:-

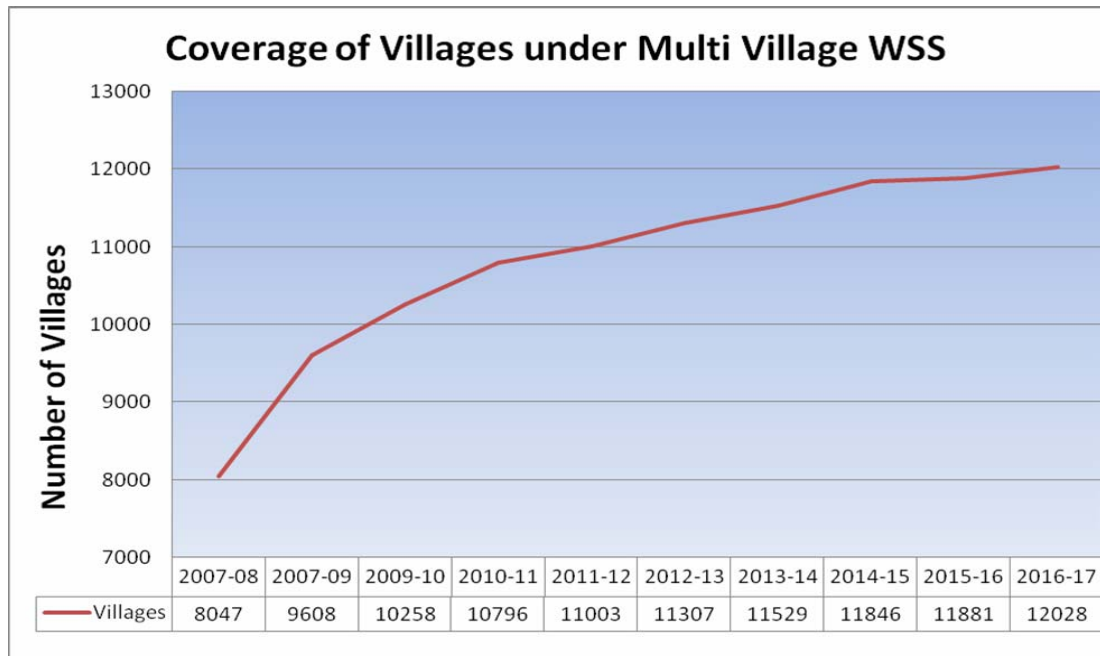
For implementing the above master plan, the Government of Gujarat has established **Gujarat Water Infrastructure Ltd.** Till formation of the Company, the project was implemented by Sardar Sarovar Canal Based Drinking Water Supply Project Cell under Water Supply Department and after **registration on 26th Oct.' 1999** the Company has started functioning independently. The basic function of the company is to formulate, implement, and maintain the Bulk water pipeline projects and to recover the cost from the beneficiaries. So far, the Government appointed five Directors.



## Salient features of Statewide Drinking Water Supply Grid :

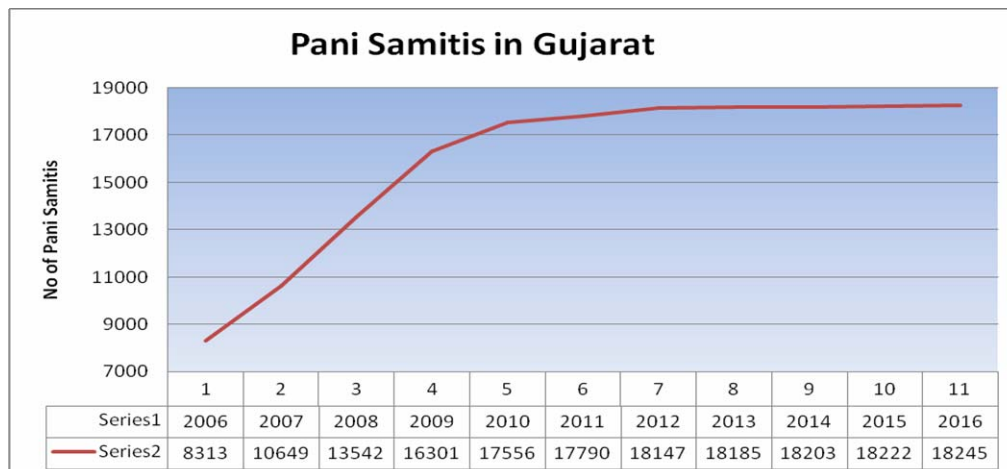
- Out of planned 3250 Km bulk water pipeline - Total **2727** Km bulk water pipeline is already been laid and the work of remaining bulk water pipeline is in progress and planning.
- The diameter of most of the bulk line is as such that a family car can easily pass through it.
- Grid is catering the need of about 75% population i.e. 44 million people of **12,028** villages and **196** towns of the State.

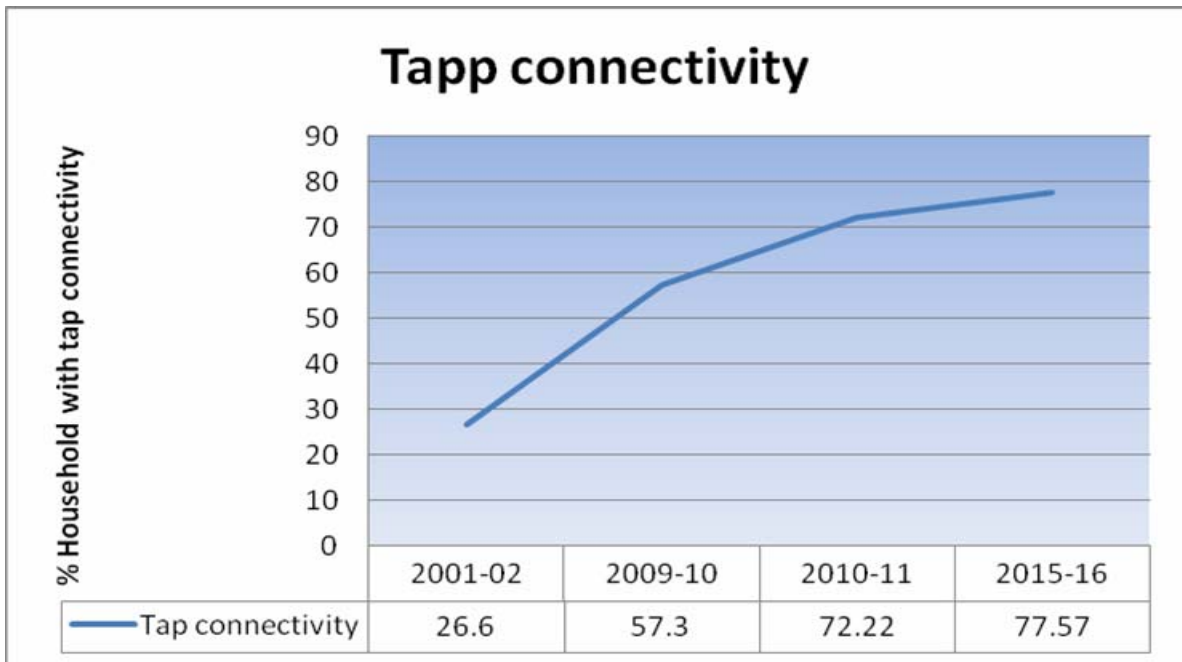
The efficiency and benefit of Grid supply can be traced through the decreased number of tankers throughout the years. Despite scanty rainfall the State Government have been able to manage the crisis by deploying minimum number of tankers



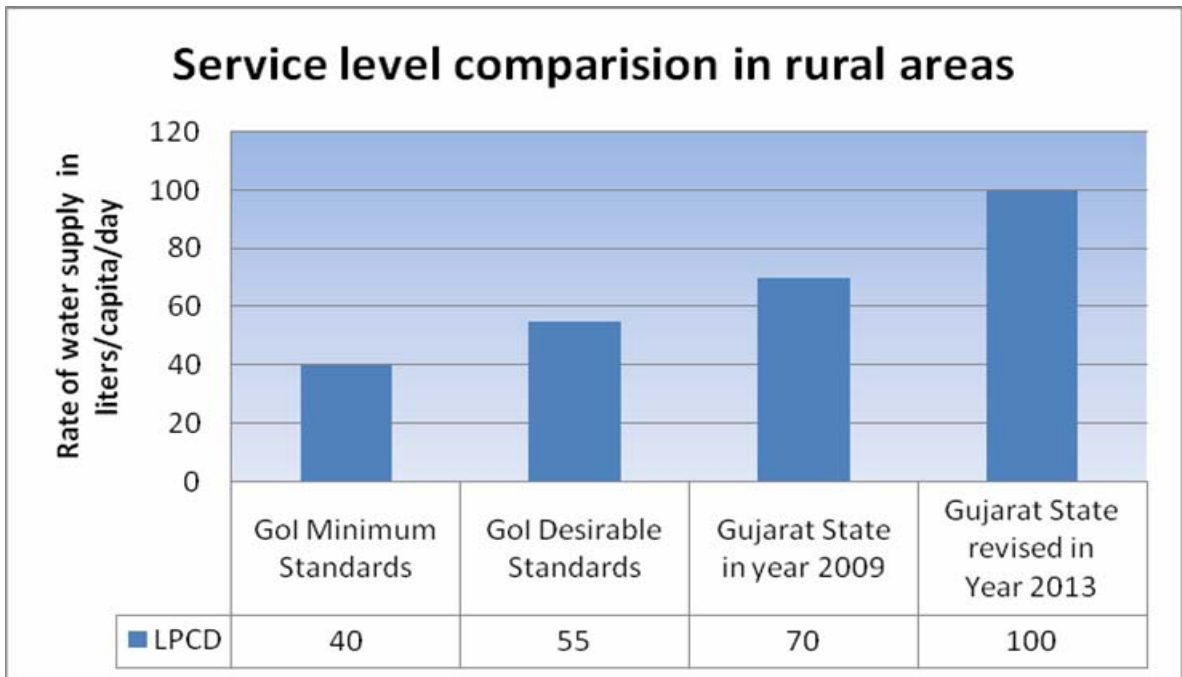
## Creation of Water & Sanitation Management Organization ( WASMO)

WASMO is registered as a society under the Societies Registration Act, 1860 and also as a Public Charitable Trust. The organization adopts best practices of Government, Civil Society or Corporate with flexible approach and faster decision making process, so as to fulfil the demand of community in taking forward drinking water reforms at village level





### Improved service level in the State:-



Even in year 2016 the minimum standards of Government of India for rural population of is 40 liters per capita per day and desirable standard is 55 liters per capita per day. **Gujarat state was way ahead the National standards of service level.**

**Conclusion:**

Gujarat has made a herculean effort by designing, laying and operating such huge pipeline network to transfer raw water from one end of the State to other end of the State and extending it to far flung water scarce areas through its own means due to unwavering support provided by State Government. It can be replicated in other States also where sub surface water fails to meet quality or quantity requirement & surface water is available in abundance. Financial support would be another major required parameter. Gujarat could provide Professional or technical expertise if requested.