



Annual Administrative Report 2016-2017

GUJARAT WATER SUPPLY & SEWERAGE BOARD

Jalseva Bhavan, Opp. Air Force Campus Sector-10/A,
Gandhinagar-382010 (Gujarat)

ANNUAL ADMINISTRATIVE REPORT 2016-17

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1. Preamble/Background

(A) History of water supply and sewerage activities in Gujarat

The State of Gujarat was formed in the year 1960. The responsibility of providing drinking water and sanitation facilities to the rural and urban areas was vested with the State Government's Public Health Engineering Department run under the Health Department.

Providing drinking water and sanitation to the people is the prime responsibility of the local body. However, due to lack of technical expertise and financial constraints, the local bodies lacked competency to work independently, due to which the State Government entrusted the above task on behalf of the local bodies to the Public Health Engineering Department.

During the time period from 1960 to 1964, mostly the urban water supply and drainage schemes were implemented. Thereafter, from the year 1964, the State Government started implementing Rural Drinking Water Supply Schemes.

(B) Genesis of Gujarat Water Supply and Sewerage Board

The State Government formed an autonomous body called "Gujarat Water Supply and Sewerage Board" on 20th August, 1979 under the provisions of the Gujarat Water Supply and Sewerage Board Act, 1978. The main purpose for formation of the Board was rapid implementation of water supply and sewerage systems and at the same time proper regulation of the facilities.

The Board included 12 members including the Chairman and Member Secretary. 255 Urban Centers and 18275 villages were covered under the Jurisdiction of the Board with exemption to Municipal Corporations and cantonment areas.

(C) Duties and Responsibilities of the Board

- Prepare and execute the schemes for supply of water and for sewerage and sewage disposal.



- Prepare draft state plan for water supply and sewerage on the direction of State Government.
- Render all necessity services in regard to water supply and sewerage facilities to the State Government.
- Review and advice on the tariff of water supply.
- Assess the requirement of the material, procurement and utilization.
- Establish the state standards for water supply and sewerage projects.
- Operate, run and maintain water supply schemes across the state.
- Assess requirement of man power and training in relation to water supply and sewerage services.

(D) Legal Framework

The Board shall be deemed to be a local authority. The Board shall consist of the following members, namely :

- (I) The Chairman to be appointed by the State Government, from amongst persons appearing to it to qualify by reason of wide administrative experience in a managerial capacity or capability as a technical expert, for such appointments ;
- (ii) The Member-Secretary to be appointed by the State Government, who shall be a qualified Engineer or an officer having an administrative experience as the State Government deems fit ;
- (iii) A representative of State Government from the Health and Family Welfare Department, not below the rank of Deputy Secretary to Government, to be appointed by the State Government, ex-officio ;
- (iv) A representative of State Government from the Panchayat, Housing and Urban Development Department or from Planning Department, not below the rank of Deputy Secretary to Government, to be appointed by the State Government, ex-officio ;

- (v) A representative of State Government from the Finance Department not below the rank of Deputy Secretary to Government, to be appointed by the State Government, ex-officio ;
- (vi) Three members appointed by the State Government from amongst the elected heads of local bodies ; and
- (vii) Four members to be appointed by the State Government, from amongst persons who are experts in economic or development planning and engineering, out of such members one shall be a woman.

(E) Board members as on date 31-03-2017

Sr. No.	Name of Member	Designation
1	Shri Mukesh Puri, IAS Principal Secretary, (Water Supply), Narmada, Water Resources, Water Supply & Kalpasar Department, Government of Gujarat.	Chairman
2	Shri Sujit Gulati, IAS Additional Chief Secretary, Energy & Petrochemical Department, Government of Gujarat.	Member
3	Shri Rajgopal, IAS Principal Secretary, Panchayat, Rural Housing & Rural Development Department, Government of Gujarat.	Member
4	Shri Sanjeev Kumar, IAS Secretary (Expenditure), Finance Department, Government of Gujarat.	Member



Sr. No.	Name of Member	Designation
5	Shri Milind Torvane, IAS Managing Director, Gujarat Urban Development Corporation, Government of Gujarat.	Member
6	Shri Tushar Dholakia, IAS Member Secretary, Gujarat Water Supply & Sewerage Board.	Member
7	Shri Tushar Dholakia, IAS Managing Director, Gujarat Water Infrastructure Limited.	Member
8	Shri M. K. Jadav Secretary (Water Resources) Narmada, Water Resources, Water Supply & Kalpasar Department, Government of Gujarat.	Member
9	Shri S. B. Vasava Secretary, Road & Building Deptt., Government of Gujarat.	Member
10	Shri K. B. Rabadia Managing Director, Gujarat Water Resources Development Corporation, Government of Gujarat.	Member
11	Shri R. B. Seth Technical Advisor, Gujarat Water Supply & Sewerage Board.	Member

(F) Board Meetings held during the year 2016-17

Sr. No.	Date of Meeting	Board Meeting No.	Number of Agenda
1	22/04/2016	258	11
2	14/06/2016	259	11
3	19/07/2016	260	06
4	29/11/2016	261	15
5	16/03/2017	262	08

(G) Other Statutory Committees of the Board.

(I) Tender and Purchase Committee

There are two Tender Purchase Committees (TPC) in the Board, namely TPC-1 & TPC-2. These committees are formed as per the Finance Department's GR dated 13/05/1997 & 03/09/1998. The Tender up to the value of Rs. 2.0 crores are approved by TPC-2, where as the TPC-1 is empowered for the tenders above Rs. 2.0 crores. The decisions regarding extension of time limit, excess, extra items, saving etc. proposals are taken by the respective TPC. The Chairman of the Board & Principal Secretary, Water Supply Department is the head of TPC-1 and the Member Secretary of the Board is the head of TPC-2. Members of the TPC-1 & 2 are shown in **Annexure-1**

Tender Purchase Committee-1 meeting held during the year.

Sr.No	Date of Meeting	TPC-1 no.	Number of resolutions	Tender amount sanctioned in Rs Crore
1	26/04/2016	355	24	126.17
2	14/06/2016	356	12	29.41
3	21/07/2016	357	11	20.22
4	24/08/2016	358	12	99.37
5	28/10/2016	359	18	398.05
6	30/12/2016	360	22	148.73
7	16/03/2017	361	25	579.08



Details of Tender Purchase Committee-2 meeting held during the year.

Sr.No	Date of Meeting	TPC-2 no.	Number of Resolutions	Tender amount Sanctioned in Rs Crore
1	06/05/2016	213	13	04.27
2	31/05/2016	214	24	09.79
3	22/07/2016	215	41	06.73
4	07/10/2016	216	22	13.39
5	03/01/2017	217	31	11.78
6	04/02/2017	218	22	14.07
7	28/03/2017	219	13	05.87

(II) Technical Scrutiny Committee

Projects having estimate cost more than Rs. 3.0 crore are checked by Technical Scrutiny Committee (TSC) considering technical & cost-economic factor.

Obtaining opinions from experts such as Chief Engineers, Superintending Engineers and highly experienced consultants regarding structures and hydraulics, the scheme is approved after detailed scrutiny by Technical Scrutiny Committee members & experts.

Members of the TSC are as per the resolution of board meeting 242 Dt. 29/05/2012 (**Annexure-2**).

(III) State Level Scheme Sanctioning Committee

The function of State Level Scheme Sanctioning Committee (SLSSC) is to approve Rural Drinking Water Supply Schemes and support activities under NRDWP Programme. It also monitors the progress, completion and commissioning of the schemes. Member of the SLSSC are shown in **Annexure-3**

(IV) Source Finding Committee (S.F.C.)

A meeting of State Ministers, Secretaries and Chief Engineers of Rural Water Supply and Sanitation was held on 11th and 12th of February 1987 at New Dehli. During this meeting, it was decided to constitute a committee on Source Finding at state level and same was approved with modification vide Resolution No. TMP-1087-GOI-127-N Dated July 8th 1988.

Representatives from various department of Central and State Government have been included in the SFC. The idea behind this aspect was to get technical, scientific and administrative inputs from the related departments. This Committee shall approve the source for group w/s schemes based on surface water source and ground water based source.

Total 16 nos. of technical and administrative heads are included in S.F.C. The committee will meet twice a year in the month of January and July. Member of the S.F.C. are shown in **Annexure-4**.

2. Organization Structure of the Board

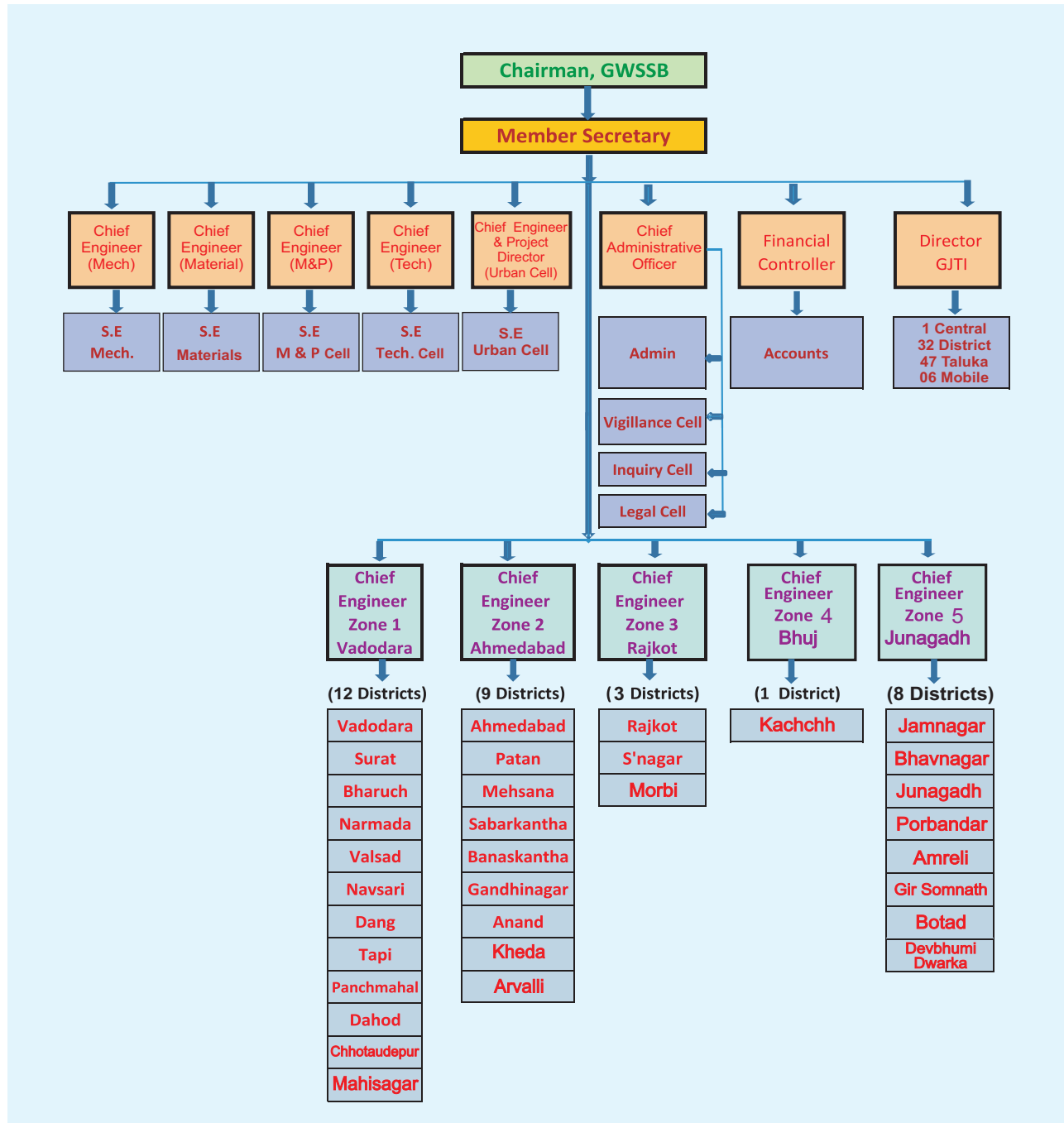
(A) Organization structure at the time of formation of Board

Gujarat Water Supply and Sewerage Board was constituted on 20-8-1979. During the initial period, the establishment at Board comprised of the Chairman, Member Secretary, 1 Superintending Engineer, 1 Executive Engineer, 3 Deputy Engineer, 1 Deputy Administrative Officer, 1 Accounts Officer cumulating to total 33 sanctioned posts.

Thereafter, in February, 1980 two project circle and one Works Circle were transferred under the Board. On 01-04-1981, the entire establishment under Public Health Engineering Department was transferred under the Board. This included 5 Works Circle, 4 Project Circle and 1 Mechanical Circle with subordinated staff 4166 technical /administrative/accounts/service staff.

(B) Present Organization Structure

With increasing population, improved living standards and availability of more funds, there is huge increase in the quantum of work the Board undertakes. Present day, organization structure of the Board is as follows.



Jurisdiction is divided into five zones and districts are divided as per the geographical and administrative ease. **(Annexure-5)**

All zones are further divided into Circle Offices, Divisions, Sub-Division of Civil and Mechanical offices. **(Annexure-6)**

(C) Functions of Different Branches at Head office

Branches	Functions
Monitoring and Planning Cell	Preparation of Annual Development Plan, fixing financial and Physical Targets. Preparation of Action Plan and implementation it with respect to district wise financial allocation and physical targets.
Mechanical Cell	Monitoring for implementation of Electro Mechanical works of Water Supply schemes, Mini-Pipe water supply scheme, New Hand pumps and bore wells.
Technical Cell	Proceeds for Administrative approval, Scrutiny of Technical proposals & approval of water supply schemes. Reply to assembly questions, VIP references.
Material Cell	Procurement of material on Rate Contract and vendor registration.
Account Branch	Preparations for budget, release of grants, preparation and audit of monthly accounts, compliance of audit paras of Accountant General and Public Accounts Committee.
Administration Branch	Work related to administration and establishment of Board. Inquiry, vigilance, legal activities are also part of Administration Branch.
Urban Cell	Implementation of Urban Drainage and Urban Water Supply Schemes.
Gujarat Jalseva Training Institute	Conduct and organize trainings and professional examinations. Monitoring for laboratories of Testing of quality of Drinking water.

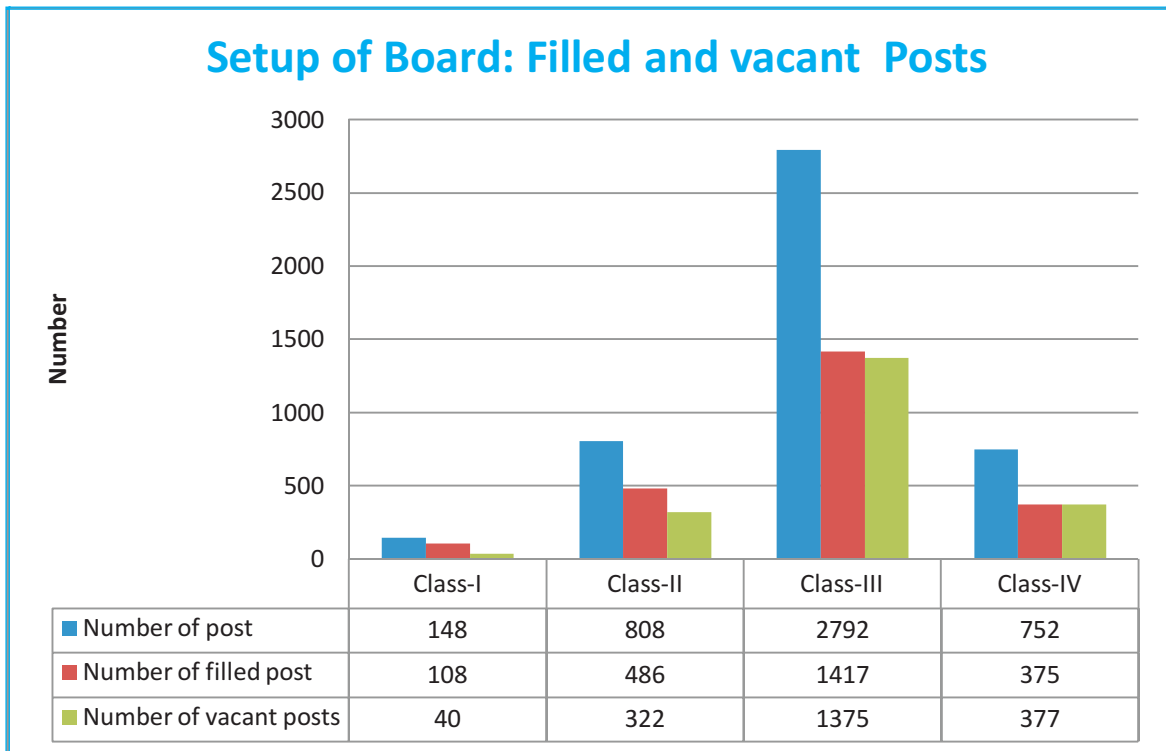
3. Establishment of the Board

(A) Setup of the Board - Filled and vacant posts

Statement showing details of staff setup are shown below.

Sr. No	Class	Number of post	Number of filled post	Number of vacant posts
1	Class-I	148	108	40
2	Class-II	808	486	322
3	Class-III	2792	1417	1375
4	Class-IV	752	375	377
	Total	4500	2386	2114

As on date 31-3-2017, out of total **4500** posts, **2386** posts are filled and **2114** posts are vacant.



(B) Details of Promotions, recruitments and retirements during the year are shown below.

Sr.No	Class	Number of Promotions	Number of Recruitments	Number of Retirements
1	Class-I	12	0	16
2	Class-II	20	0	17
3	Class-III	134	7	123
4	Class-IV	-	0	32
	Total	166	7	188

(C) Statement showing the meeting held by Departmental Promotion Committee

Sr. No	DPC Class I/II/III	Date of Meeting	For the post of	Number of Promotions given	Remarks
1	Class-I	10/03/2016	DEE to EE (C)	07	DPC held in March-16 but Promotion order issued in April-16
		10/03/2016	DEE to EE (M)	05	
2	Class-II	11/03/2016	AE-AAE to DEE (Mech.)	11	DPC held in Feb/ March-16 but Promotion order issued in April-16
		06/05/2016	AE to DEE (C)	01	
		17/12/2016	AE-AAE to DEE (Civil)	08	



Sr. No	DPC Class I/II/III	Date of meeting	For the post of	Number of promotions given	Remarks
3	Class -III	29/04/2016	Sr. Clerk (A) to Asstt. Supdt.	02	Ahmedabad Zone
		24/06/2016	Jr. Clerk to Sr. Clerk	03	
		09/02/2017	Jr. Clerk to Sr. Clerk	72	
		10/02/2017	Jr. Clerk to Sr. Clerk	49	Rajkot Zone
4	Class -IV	25/04/2016	Peon to Jr. Clerk	07	Head Office GWSSB
		21/11/2016	Peon to Jr. Clerk	01	
Total				166	

During the year **10** Departmental Promotion Committees were held and **166** promotions were given.

4. Norms of Drinking Water Supply

(A) Norms as per Central Public Health and Environmental Engineering Organisation (CPHEEO)

Central Public Health and Environmental Engineering Organisation, under the Ministry of Urban Development, New Delhi had published a Manual on Water Supply and Treatment in May, 1999. As per the manual certain basic design consideration such as the area and population to be served, design period, the per capita rate of water supply etc has been defined.

(1) Design Period

Water Supply projects may be designed normally to meet the requirements over a thirty year period after their completion.

(2) Per capita Supply

In the Code of Basic Requirements of Water Supply, Drainage and Sanitation (IS: 1172, 1983) as well as the National Building Code, a minimum of 135 lpcd has been recommended for all residences provided with full flushing system for excreta disposal. Though the Manual on Sewerage and Sewage Treatment recommends a supply of 150 lpcd wherever sewerage is existing/comtemplated, with a view to conserve water, a minimum of 135 lpcd is recommended.

(B) Norms as per Ministry of Drinking Water and Sanitation, Government of India.

The vision for rural domestic water supply in the Strategic Plan of the Ministry is to cover all rural households with safe piped drinking water supply @ 70 lpcd. Considering the fact that the norm of 40 lpcd has been continuing for the last 4 decades and there is a large population that has to be provided with higher service levels, as an interim measure the norm is 55 litres per capita per day (lpcd) for humans to meet the following requirements.

Purpose	Quantity (lpcd)
Drinking	3
Cooking	5
Bathing	15
Washing Utensils and House	10
Ablution/ Toilets	10
Washing of Clothes and other Uses	12
Total	55

The above norms may be assessed by the respective State Governments and they may fix their own higher norms based on water availability, demand, capital cost involved, affordability etc.

For purposes of comparability coverage means provision within a distance of 100 mts from the household or 30 minutes of time taken for fetching water in a day.



(C) Norms adopted by Water Supply Department, Government of Gujarat.

(1) Design Period

The design period of Water supply scheme prepared by the Department is 30 years except the pumping units whose design period is 15 years.

(2) Percapita Supply

As per the minutes of Board Meeting dated 01/08/2013, all new schemes shall be prepared with per capita supply as 100 lpcd for rural areas and 140 lpcd for R-urban and Urban areas.

(D) Installation of Hand Pump:

Hand pump is a spot source and based on ground water. It is installed mostly in rural tribal areas where the population is scattered and topography is undulating. As per Government of India 1 new Hand pump is to be provided per 250 persons in general area, but as Government of Gujarat have a better citizen welfare oriented policy therefore a new hand pump is provided per 150 persons in rural general area and in rural tribal area a new hand pump is provided per 50 persons.

(E) Water Tariff

Water tariff adopted by the Board for supply to various consumers for the year 2016-17 is as shown below :

Sr No	Type of Consumer	Rate in Rs per 1000 litre	Remarks
1	Village Panchayat	2.00	w.e.f 8/2/2007
2	Nagarpalika	4.00	
3	Municipal Corporation	6.00	
4	Educational/Religious/Social/Health Institutes	10.00	
5	Industries	27.44	w.e.f 1/4/2016

5. Infrastructure Creation

(A) Various types of Water Supply Scheme

(1) Hand Pump

As on 31-03-2016, there were 2,43,689 Working hand pumps. During 2016-17, 15,714 Hand pumps were installed. Hence as on 31-03-2017, there were 2,59,403 working hand pumps in the state.

(2) Mini pipe water supply scheme

It is a small piped water supply scheme suitable for a population of 100-150. It is based on tube well and water is drawn by single phase submersible pumps and stored in HDPE tanks of 5000 lit capacity. About 20 to 25 tap connections are provided along with one for cattle trough. As on 31-03-2016, there are 9,448 Mini Pipe Water Supply Schemes. During 2016-17, 987 new Mini pipe schemes were completed. Hence as on 31-03-2017, there are 10,435 mini pipe schemes in the state.

(3) Solar Mini Pipe Water Supply Scheme

As per guidelines of Government of India, it encourages use of non conventional energy sources like solar energy. Solar power pumps are installed mostly in tribal areas.

It is a small piped water supply scheme suitable for a population of 100-150. It is based on tube well and water is drawn by solar power driven submersible pumps and stored in HDPE tanks of 5000 lit capacity. Tap water connections are provided to the nearby houses along with stand posts and a cattle trough.

(4) Individual water supply scheme

It is a piped water supply scheme for a single village/habitation based on ground water (either tube well or open well) as source of water.



As ground water may be chemically unfit, all ground water sources (new & existing) are tested in water quality laboratories for its suitability as a source of water supply scheme. Ground water which is declared fit by laboratory generally do not required any treatment (except disinfection) & hence can be directly delivered for human consumption. Water is drawn from tube well/open well and stored in elevated storage structure (ESR)/ground level cisterns from where it is supplied to houses either through stand post or tap connections. From 2002 onwards the State Government has also implemented the Swajaldhara programme, wherein the in-village water supply schemes are being implemented by WASMO through Pani Samiti.

(5) Regional/Multi village water supply scheme

It is a piped water supply scheme for two or more villages. The source of regional water supply schemes used to be either tube well, open well, or surface water source. The water from source is pumped to a conventional water treatment plant where it is treated and supplied to individual villages at village level sump. The main components of Regional water supply schemes are pumping station, rising main, treatment plant, storage structures and distribution network. Details of Elevated Storage Reservoir, Under Ground Sump and Pumping Stations constructed under various Regional Water Supply Schemes is shown in **Annexure 7**.

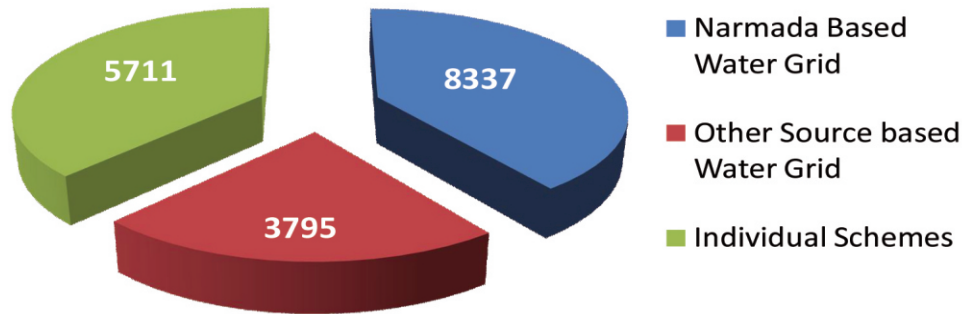
(B) Bulk pipeline Network

Bulk pipe lines are implemented by GWIL, which are a major source of Narmada water for the group water supply schemes of GWSSB. As on 31/03/2017, 2727 km of Bulk pipelines have been laid in the State.

(C) Villages and Towns covered

Status of coverage of Rural and Urban areas under State Wide Drinking Water Supply Grid as on 31-3-2017 is as under:

Source of Water & Grid Connectivity



	Villages	Towns
Total	17843	350
Narmada Based Water Grid	8337	159
Other Source Based Water Grid	3795	37
Individual WSS	5711	154

District wise coverage of Rural and Urban areas is shown in **Annexure-8 & 9**.

(D) Household covered

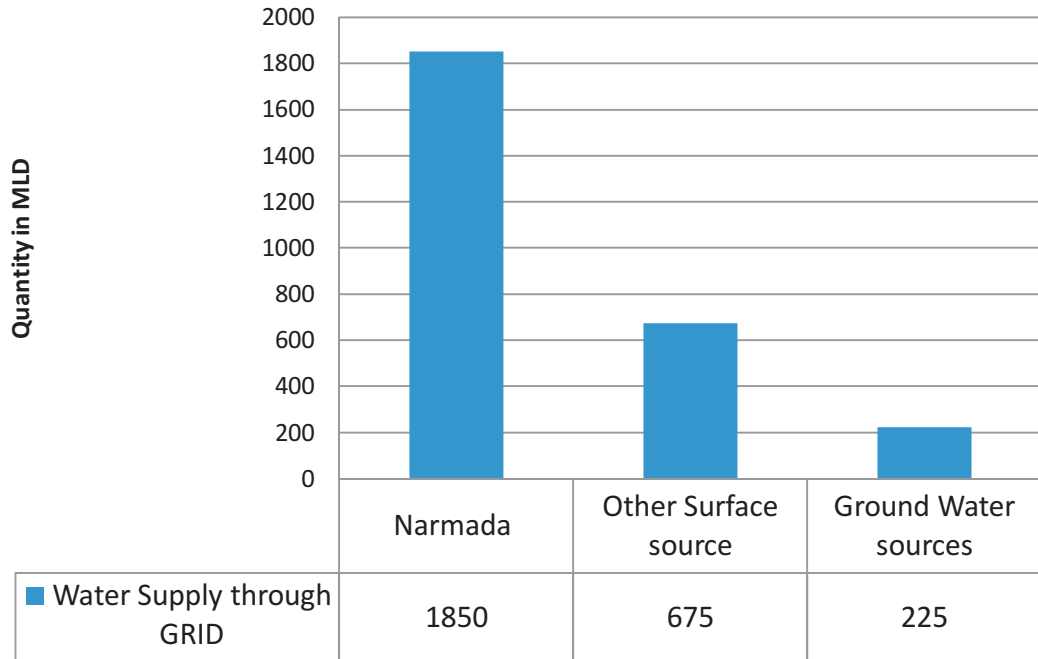
WASMO is the main organization for implementation of invillage water supply schemes and providing tap connectivity to individual households. As on 31.03.2017, 47.53 lakh households have been provided tap connectivity, which is about 73.38% of total households of rural areas. District wise Rural tap connectivity is shown in **Annexure-10**.

(E) Quantity of water supplied

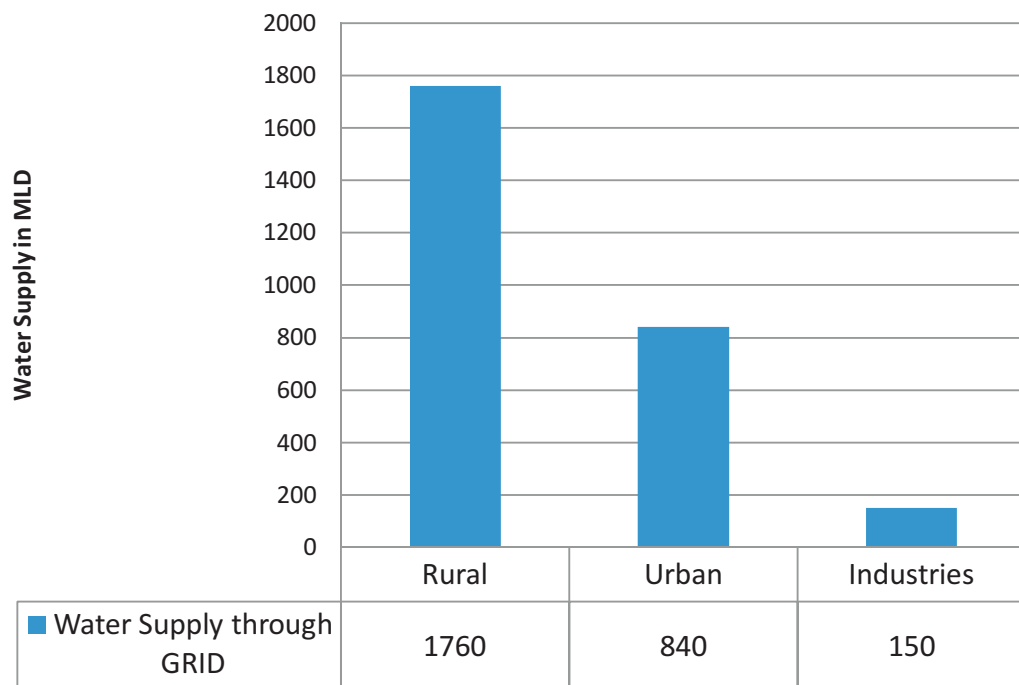
The major source of water for GWSSB is the Narmada water and the water stored in various reservoirs in the State. There is an allocation of 1.06 MAF i.e. 3571 MLD for domestic and industrial usage for Narmada water. In addition to Narmada Water, there is allocation of drinking water in 55 reservoirs of the State, from which water supply schemes for 2670 villages and 53 towns are covered. Average 2750 MLD drinking water is supplied through State Wide Drinking Water Supply Grid. District wise water supplied is as per **Annexure-11 & 12**.



Water Supply through GRID (Sourcewise)



Water Supply through GRID (Userwise)



6. Water Treatment Facilities

Water Supply and Sewerage Board has undertaken the water supply schemes based on surface sources since long. In order to tackle the issue of odour, taste, suspended impurities and contamination in surface water, a large number of Water Treatment Plants have been constructed across the state.

(A) Existing Water Treatment Plants

Total 219 Water Treatment Plants having total capacity of 3392 MLD are existing in the State. **(Annexure-13)**,

(B) Ongoing Water Treatment Plants

37 Water Treatment Plants are under execution with a total capacity of 818.62 MLD. **(Annexure-14)**

7. Financial Details

(A) Allocation, grant received expenditure incurred by Water Supply Department.

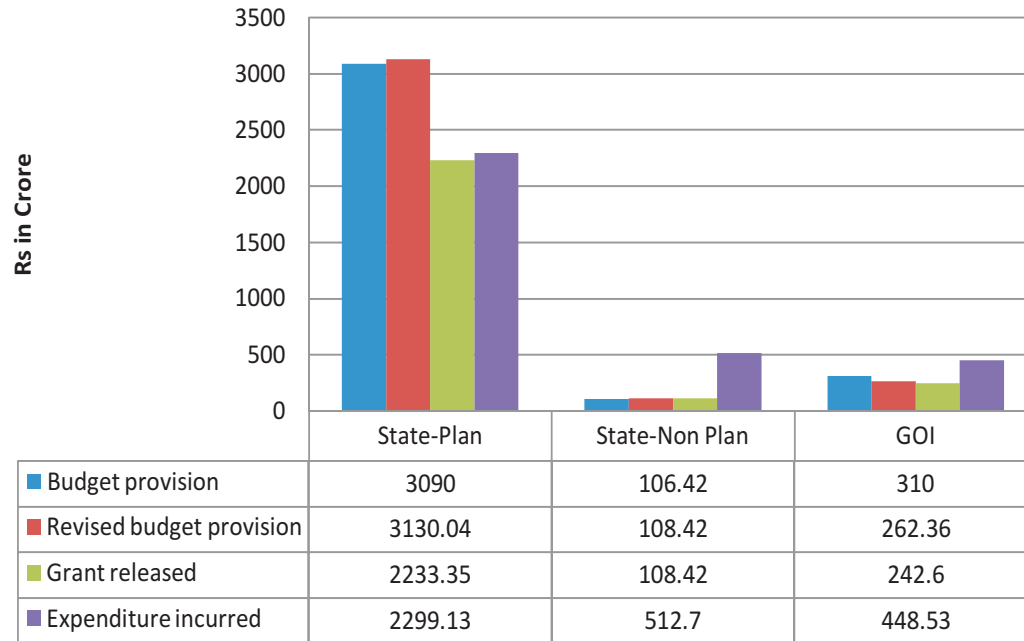
Budget provision, Grant release & expenditure for Year 2016-17 is as below.
(Detail provision as per **annexure -15**)

(Rs. in Crore)

Sr. No.	Description	Budget provision	Revised budget provision	Grant released	Expenditure incurred	Note
1.1	State-Plan	3090.00	3130.04	2233.35	2299.13	Expdr. Incurred From Board Funds
1.2	State-Non Plan	106.42	108.42	108.42	512.70	
2.0	GoI	310.00	262.36	242.60	448.53	
Total		3506.42	3500.82	2584.37	3260.36	

Note : * In case of expenditure exceed against received grant, the excess expenditure is incurred from Board Funds.

Details of Budget Provision, Grant released and Expenditure Incurred



(B) Capital and Revenue Expenditure incurred by the Board

Out of total expenditure of Rs. 2336.72 crores incurred by GWSSB, Rs 1327.14 crores is towards capital works and Rs. 1009.58 crores is towards revenue expenditure.

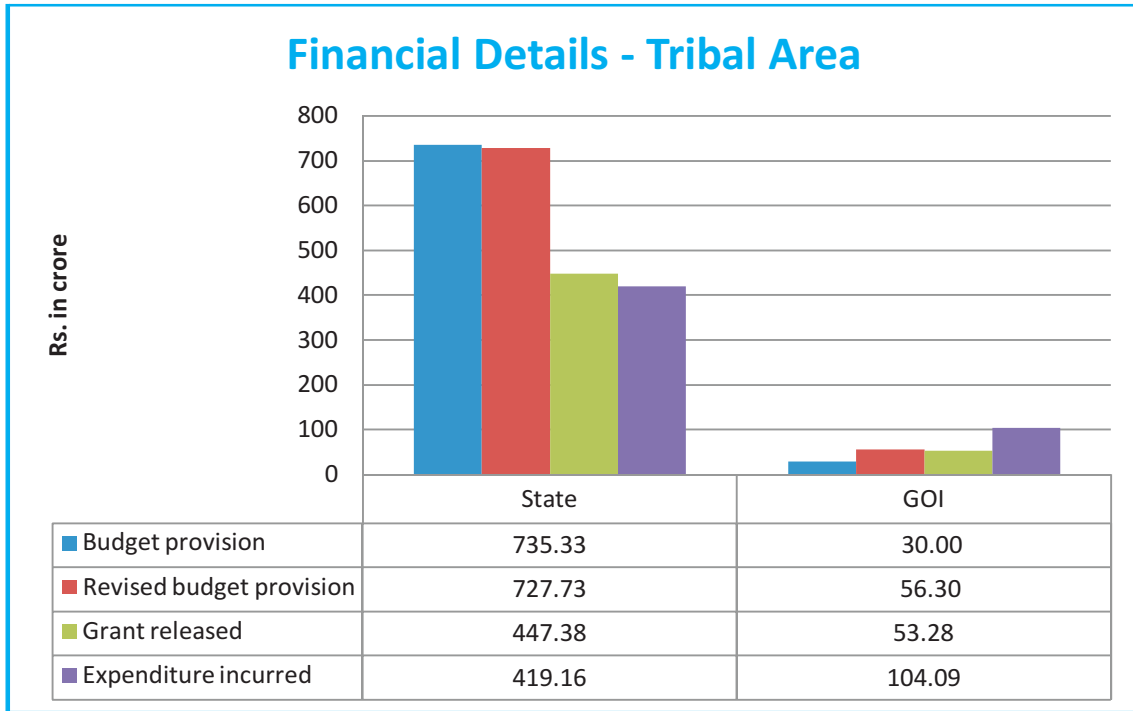
Sr.No	Details	Revenue Expenditure incurred in Rs Crores
1	Energy charges	234.65
2	Water Charges	262.30
3	Maintenance charges including staff, chemical and other expenditure	296.03
4	Administration expenditure	216.60
Total		1009.58

(C) Details of expenditure incurred for the Tribal areas

(Rs. in Crore)

Sr. No.	Description	Budget provision	Revised budget provision	Grant released	Expenditure incurred
1	State	735.33	727.73	447.38	419.16
2	Gol	30.00	56.30	53.28	104.09
Total		765.33	784.03	500.66	523.25

Note : * In case of expenditure exceed against received grant, the excess expenditure is incurred from Board Funds.



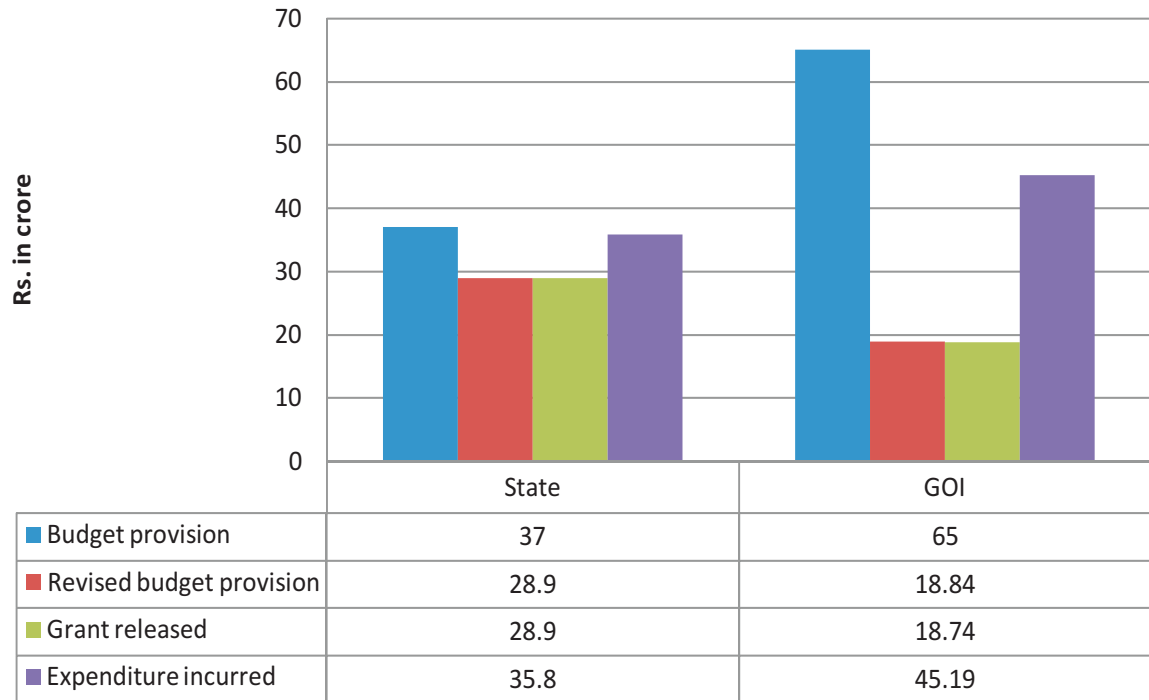
(D) Details of expenditure incurred for the Schedule Caste

(Rs. in Crore)

Sr. No.	Description	Budget provision	Revised budget provision	Grant released	Expenditure incurred
1	State	37.00	28.90	28.90	35.80
2	Gol	65.00	18.84	18.74	45.19
Total		102.00	47.74	47.64	80.99

Note : * In case of expenditure exceed against received grant, the excess expenditure is incurred from Board Funds.

Financial Details - Schedule Caste Sub Plan



(E) Details of Revenue Income of the Board

Sr. No.	Details	Revenue Income (Rs in Crores)
1	Water Charges	71.71
2	ETP charges from Projects	168.82
3	Other Misc. Income	70.01
Total		310.54

8. Water Quality Monitoring & Surveillance (WQMS)

(A) Drinking Water Quality Standards as per BIS 10500:2012 .

The BIS 10500:2012 specifies the acceptable limits and the permissible limits (in the absence of alternate source) for drinking water.

(B) Details of water quality testing facilities and water samples tested

Chemical/bacteriological analysis of drinking water samples are being carried out in 80 water testing laboratories (33 district & 47 block level) established in the State of Gujarat.

Co-ordination, monitoring & management of these laboratories are being carried out by the Central Laboratory at GJTI, which is identified as State Referral institute by MDWS, GOI.

During the year 69714 sources are tested and 105508 water samples for testing water quality were collected and tested (**Annexure-16**)

Water quality parameters tested by District/ Block laboratories are as follows :

Sr. No	CHARACTERISTIC	Value as per BIS 10500/2012 [Second Revision]	
		Requirement (Acceptable Limit)	* Permissible Limit in the Absence of Alternate Source
1	Colour - (Hazen Units), Max	5	15
2	Odour	Agreeable	Agreeable
3	Turbidity - (NTU), Max	1	5
4	Dissolve Solids - mg/l, Max	500	2000
5	pH Value	6.5 to 8.5	No Relaxation
6	Total Hardness (as CaCO ₃) mg/l	200	600
7	Calcium (as Ca ⁺²) mg/l, Max	75	200
8	Magnesium (as Mg ⁺²) mg/l, Max	30	100
9	Chloride (as Cl ⁻) mg/l, Max	250	1000
10	Sulphate (as SO ₄ ⁻²) mg/l, Max	200	400
11	Nitrates (as NO ₃ ⁻) mg/l, Max	45	No Relaxation
12	Fluoride (as F ⁻) mg/l, Max	1.0	1.5
13	Alkalinity (as CaCO ₃) mg/l, Max	200	600

During the year, water quality testing through Field test Kits were carried out for 45250 water samples (**Annexure-17**)

Parameters tested through FTK

1. Turbidity
2. P.H.
3. Fluoride (as F) in mg/l
4. Nitrate (as No_3) in mg/l
5. Free Residual Chlorine in mg/l
6. Total Hardness (as CaCo_3) in mg/l
7. Chloride (as Cl) in mg/l

9. Training and Capacity Building- Gujarat Jalseva Training Institute

- Gujarat Jalseva Training institute is a training center of the Gujarat Water Supply and Sewerage Board, functioning under the Narmada, Water Resources, Water Supply and Kalpsar Department of the State of Gujarat.
- The Gujarat Jalseva Training Institute was identified and recognized as National Key Resource Centre (KRC) by the Ministry of Rural Development, Department of Drinking Water Supply in the year 2009-10.



(A) Activities of GJTI during the year

- (1) Two days training programme on “Water Resource Management” was organized in which total 54 officers took part.
- (2) During the current year, total 07 training programmes were organized by GJTI under the State training Policy, wherein 335 officers were trained.



- (3) Training programme on “Stress Management & Importance of Discipline in life” was arranged at Knowledge Consortium of Gujarat, Ahmedabad on 18/10/2016 for class I & II officers in which 354 officers were trained.
- (4) Four training programmes on “Hydraulic Design of Water Mains” were organized at Gandhinagar, Vadodara, Rajkot & Junagadh, in which total 121 participants were trained.
- (5) Four training programmes on “Assessment of Damage By NDT & Site Selection (STP)” were organized at Surat, Bhuj, Rajkot & Junagadh, in which total 210 participants were trained.
- (6) Training programme on “Procedure of Law & Arbitration” was arranged at Geer Foundation, Gandhinagar on 03/09/2016 for class I & II officers, in which 125 officers were trained. Information was given by subject experts on Claims in Construction Contracts, Dispute, Resolution and Arbitration.
- (7) A Seminar on “Observance Vigilance Awareness Week” was organized at Forensic Science University, Gandhinagar on 05/11/2016, wherein 662 class I & II officers were trained.
- (8) Under “Digital Payment Theme”, 3 Workshops were organized At Vadodara, Gandhinagar and Rajkot, wherein 331 employees were trained for different digital payment methods.
- (9) A Workshop on “Pumping Machinery” was organized on 28/07/2016 at Staff Training Collage, Gandhinagar. In which 101 participants of pump manufacturers, subject experts, TCEL officers, and GWSSB officials took part.
- (10) 5-days, Induction Training was organized for newly recruited 14 Jr. Geologist, on “Scientific Source Finding”. In which, detailed information about finding various sources of water, remote sensing, and geological survey was given.



- (11) Two training programmes on “**Water Harvesting Conservation & Recharge**” were organized, in which 106 participants were trained.
- (12) 2 days Training programme on “**Source Sustainability**” was organized, in which 58 participants were trained.
- (13) 6 Trainings on “Administrative & Account System (2 days)” was organized in which 384 participants were trained. Topics for administrative training comprised of – GCSR Rules, Store Keeping, CPF/GPF, Accounts, Record Keeping, Delegation of Power, Department Inquiry, Benefits of Leave, Group Insurance, RTI Act-2005, Stress Management, Art of Leaving etc.
- (14) Training on “Office Procedure & Record Management with Five-S”, was organized, in which 14 participants were trained.
- (15) Water Quality Monitoring & Surveillance program as per prevailing GOI norms & guide lines were implemented in the state of Gujarat through 33 districts & 47 block level i.e. total 80 laboratories under the guidance, coordination & monitoring of Central Laboratory, Gujarat Jalseva Training Institute, Gandhinagar.
- (16) During the 2016-17 year, analysis of 270933 (chemical Samples 128194 + microbiological Sample 142739) water samples (Against the target of 240000) was accomplished by 80 laboratories located at various places in state, which is 112.89% of target. Total 98647 Water Quality surveys were carried out by 80 laboratories of the State. Moreover 6 Mobile laboratories were also operated by zone -1 to 5 and G.J.T.I.
- (17) 12 training programmes were conducted during current year by laboratory department & 348 participants were trained on subjects like Safe Water, Relation of Water with Health, Water Quality Monitoring & Surveillance, Workshop on NABL Lab, Modern Water Testing methods.
- (18) 10 members were deputed for other state Training programme.

10. Deposit Works Undertaken by the Board

(A) Sewerage Works funded by Urban Development Department

Gujarat Water Supply & Sewerage Board has wide experience in field of Under Ground Drainage & Water Supply Projects. Out of total 159 Nagarpalika, 100 Nagarpalika's UGD projects are given to GWSSB for implementation. Out of this 99 Nagarpalika's UGD projects are Under the Swarnim Jayanti Mukhya Mantri Shaheri Vikas Yojana programme & 1 Nagarpalika's UGD projects is under JNNURM.

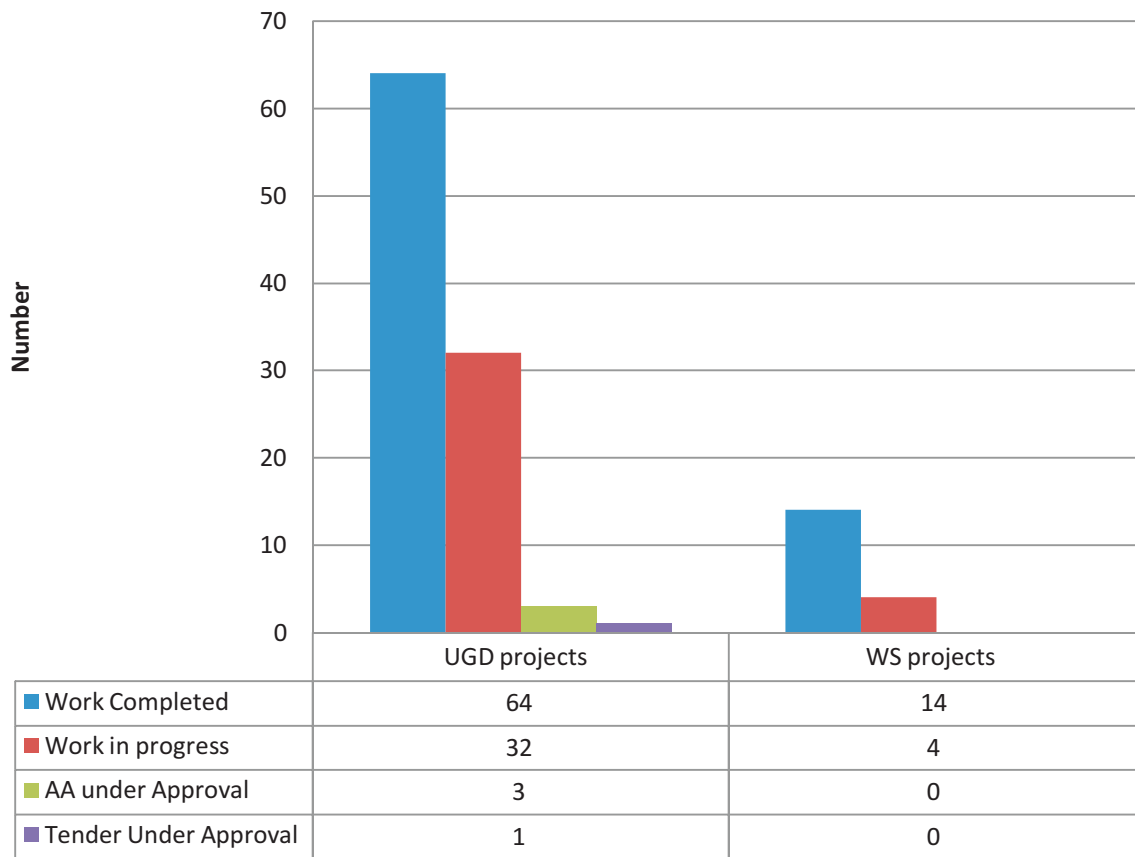
18 Nagarpalika's Water supply projects are also implemented by GWSSB. Out of this 14 water supply projects are Under the Swarnim Jayanti Mukhya Mantri Shaheri Vikas Yojana programme, 1 Nagarpalika's Water supply projects is under JNNURM programme & 3 Nagarpalika's Water supply projects are under UIDSSMT programme

Sr.	Position of projects	No. of Towns/ Villages	Estimated Cost Rs. In Crore	Approved Tender Cost Rs. In Crore
1	Urban Under Ground Drainage Projects	100	2524.75	2475.48
2	Urban Water Supply Projects	18	213.77	254.23

Physical progress of Schemes

Sr. No.	Position of projects	UGD Projects	WS Projects
1	Work Completed	64	14
2	Work in progress	32	04
3	AA under Approval	03	00
4	Tender Under Approval	01	00
Total		100	18

Urban Water Supply & Drainage Projects





11. Way Forward

There is an increase in the demand of water for various purposes as against limited water resources. Hence, it is a challenge for the organization to provide adequate and regular water supply to the population, which can be achieved by development/identification of new sustainable water sources.

Moreover, the prevailing water tariff is highly subsidized. Hence, consumers are at liberty to use water as per their will. Fixation of a competitive water tariff and its yearly revision is the need of the hour, which could not be achieved unless and until a metering policy is framed and implemented. Besides, complete water usage monitoring system is required to be ensured. Also, emphasis needs to be placed on prevention of water wastage and encourage water recharging.



Annexure- 1
Members of Tenders and Purchase Committee – 1

Sr.No	Name of Member	Designation
1	Chairman, GWSSB	Chairman
2	Principal Secretary, Water Supply Department	Member
3	Secretary (Expenditure), Finance Department	Member
4	Managing Director, Gujarat Urban Development Company	Invitee Member
5	Member Secretary, GWSSB	Member
6	Financial Advisor, NWRWS&K Department	Invitee Member
7	Financial Controller, GWSSB	Convener

Members of Tenders and Purchase Committee – 2

Sr.No	Name of Member	Designation
1	Member Secretary, GWSSB	Chairman
2	Additional Secretary Projects, Water Supply Department	Member
3	Financial Advisor, NWRWS&K Department	Member
4	Chief Administrative Officer, GWSSB	Member
5	Financial Controller, GWSSB	Member
6	All Chief Engineers (Civil/ Mechanical), GWSSB	Member
7	Deputy Financial Controller, GWSSB	Convener



Annexure- 2
Members of Technical Scrutiny Committee

Sr.No	Name of Member	Designation
1	Member Secretary, GWSSB	Chairman
2	All Chief Engineers (Civil), GWSSB	Member
3	Chief Engineer (Mechanical), GWSSB	Member
4	Chief General Manager, Gujarat Water Infrastructure Limited	Member
5	Director, Gujarat Jalseva Training Institute	Member
6	Shri R.B. Seth, [Retired CE GWSSB]	Member
7	Shri M.C. Mehta, [Retired City Engineer Bhavnagar Corporation for Civil]	Member
8	Shri D.P. Roy, Professor IIT Gandhinagar for Civil	Member
9	Shri K.H.Pujara, Retired Add City Engineer, AMC for Civil	Member
10	Shri N.S. Bhadesia , Retired CE GWSSB for Civil	Member
11	Shri H.J.Shah, Professor MS University, Vadodara for Structural Design	Member
12	Shri Sanjay Patel, MS University, Vadodara for Mechanical	Member
13	Shri B.D.Vaghela, Retired EE GWSSB for Mechanical	Member
14	Superintending Engineer, Technical Cell, GWSSB	Convener

Annexure- 3

Members of State Level Scheme Sanctioning Committee

Sr.No	Name of Member	Designation
1	Principal Secretary WS, Govt. of Gujarat	Chairman
2	Joint Secretary, Ministry of Drinking Water & Sanitation, GOI, New Delhi	Member
3	Secretary, Tribal Development Department, Govt. of Gujarat	Member
4	Commissioner, Rural Development Department, Govt. of Gujarat	Member
5	Member Secretary, Gujarat Water Supply & Sewerage Board	Member
6	CEO-Water And Sanitation Management Organisation	Member
7	Additional Secretary, Finance Department, Govt. of Gujarat	Member
8	Additional Secretary, Water Supply Department	Member
9	Additional Secretary, Education Department, Govt. of Gujarat	Member
10	MD-GWRDC	Member
11	Regional Director, Central Ground Water Board	Member
12	Director, Bhaskaracharya Institute of Space Application, Gandhinagar	Member
13	Prof. M.B. Dholakiya, LD Engineering	Member
14	General Manager, SSNNL	Member
15	Director, GJTI	Member
16	Senior Scientific Officer, Gujarat Pollution Control Board	Member

Annexure - 4
Members of Source Finding Committee

Sr.No	Name of Member	Designation
1	Additional Chief Secretary/Principal Secretary/ Secretary (W.S.), Narmada, Water Resources, Water Supply & Kalpasar Department	Chairman
2	Member Secretary, Gujarat Water Supply & Sewerage Board	Vice Chairman
3	Chief Executive officer, WASMO, Gandhinagar	Member
4	Director, BISAG, Gandhinagar (Science & Technology Dept.) Gol	Member
5	Regional Director, Central Ground water Board, Ahmedabad, Gol	Member
6	Director Geological Survey of India, Gol	Member
7	Secretary/Additional Secretary & Chief Engineer, Irrigation Department, Sachivalay, Gandhinagar (GoG)	Member
8	Managing Director, Sardar Sarovar Narmada NigamLtd. Sachivalaya, Gandhinagar (GoG)	Member
9	Additional Secretary & Chief Engineer, NWR&WS Department, New Sachivalaya, Gandhinagar. (GoG)	Member
10	Superintending Engineer (Geo hydrologist), Gujarat Water Resources Development Corporation, Gandhinagar	Member
11	Chief Engineer (Monitoring & planning), GWSSB	Member
12	Chief Engineer (Mechanical), GWSSB	Member
13	Chief Engineer, Concerned Zone, GWSSB	Member
14	Chief General Manager, GWIL, Gandhinagar	Member
15	Joint Director, Central Laboratory, Gujarat Jalseva Training Institute, Gandhinagar	Member
16	Superintending Geohydrologist, Gujarat Water Supply & Sewerage Board	Member Secretary & Convener

Annexure- 5
Districts covered under Various Zonal offices

Sr. No.	Zone-I	Zone-II	Zone-III	Zone-IV	Zone-V
	Vadodara	Ahmedabad	Rajkot	Kachchh	Junagadh
1	Vadodara	Ahmedabad	Rajkot	Kachchh	Junagadh
2	Surat	Gandhinagar	Surendranagar		Porbandar
3	Narmada	Anand	Morbi		Jamnagar
4	Valsad	Kheda			Devbhoomi Dwarka
5	Tapi	Banaskantha			Gir Somnath
6	Bharuch	Sabarkantha			Bhavnagar
7	Panchmahals	Mahesana			Botad
8	Dahod	Patan			Amreli
9	Dang	Aravalli			
10	Navsari				
11	Mahisagar				
12	Chhota Udepur				

Annexure-6
Office setup in the State

Sr.No	Office	Office Head	Number of Offices
1	Zone	Chief Engineer (Civil)	5
2	At Head Office	Chief Engineer (Mechanical)	1
3	Circle	Superintendent Engineer (Civil)	15
4	Circle	Superintendent Engineer (Mechanical)	4
5	Division	Executive Engineer (Civil)	47
6	Division	Executive Engineer (Mechanical)	20
7	Sub Division	Deputy Executive Engineer (Civil)	156
8	Sub Division	Deputy Executive Engineer (Mechanical)	66

Annexure- 7

District wise storage capacities and Pumping Station

Sr. No.	District	No. of ESR (HW and Sub HW)		Number of Sump (HW and Sub HW)		Number of Pumping Station
		Total Number	Total Capacity (in Lakh liter)	Total Number	Total Capacity (in Lakh liter)	
1	Ahmedabad	39	274.14	48	929.35	45
2	Amreli	33	197.40	58	1112.00	46
3	Anand	16	50.05	16	93.05	16
4	Arvalli	9	40.50	23	103.00	21
5	Banaskantha	75	582.60	96	1497.40	50
6	Bharuch	46	152.95	48	364.55	39
7	Bhavnagar	38	222.90	54	767.60	46
8	Botad	12	49.05	27	265.05	25
9	Chhotaudepur	21	60.10	12	140.80	18
10	Dahod	10	45.40	9	96.00	9
11	Dang	18	1.85	37	52.15	48
12	Devbhumi Dwarka	23	97.00	40	427.00	46
13	Gandhinagar	22	238.00	17	502.00	16
14	Gir Somnath	11	87.30	17	250.30	14
15	Jamnagar	23	138.00	29	445.00	25
16	Junagadh	26	147.20	48	1379.30	48
17	Kachchh	28	105.90	142	3054.10	66
18	Kheda	31	158.80	30	283.95	30



Sr. No.	District	No. of ESR (HW and Sub HW)		Number of Sump (HW and Sub HW)		Number of Pumping Station
		Total Number	Total Capacity (in Lakh liter)	Total Number	Total Capacity (in Lakh liter)	
19	Mahisagar	28	111.90	27	203.25	27
20	Mehsana	39	450.00	25	970.90	10
21	Morbi	30	228.90	46	841.05	26
22	Narmada	10	26.75	8	94.00	4
23	Navsari	11	46.22	12	77.03	11
24	Panchmahal	25	97.90	31	390.85	27
25	Patan	39	247.30	36	484.10	20
26	Porbandar	11	46.70	16	197.50	12
27	Rajkot	22	182.50	71	879.50	51
28	Sabarkantha	40	202.50	73	500.50	57
29	Surat	21	132.30	25	372.50	28
30	Surendranagar	41	243.40	50	818.00	41
31	Tapi	10	30.30	8	79.75	14
32	Vadodara	27	194.40	33	305.30	39
33	Valsad	18	72.65	12	72.00	29
Grand Total		853	4962.86	1224	18048.83	1004

Annexure- 8

District wise coverage of Villages under State Wide Drinking Water Supply Grid

Sr. no	District	Total nos. of villages in district	Villages covered	
			Narmada Based Water Supply Projects	Other Source Based Water Supply Projects
1	Ahmedabad	450	447	0
2	Amreli	604	515	39
3	Anand	347	0	121
4	Arvalli	688	14	171
5	Banaskantha	1234	804	307
6	Bharuch	647	0	324
7	Bhavnagar	668	668	0
8	Botad	181	181	0
9	Chhota Udepur	888	106	111
10	Dahod	691	0	139
11	Dangs	308	0	145
12	Devbhoomi Dwarka	266	266	0
13	Gandhinagar	249	249	0
14	Gir Somanath	383	247	15
15	Jamnagar	431	430	0
16	Junagadh	518	399	39
17	Kachchh	877	877	0
18	Kheda	517	64	239
19	Mehsana	600	469	131
20	Mahisagar	705	0	526



Sr. no	District	Total nos. of villages in district	Villages covered	
			Narmada Based Water Supply Projects	Other Source Based Water Supply Projects
21	Morbi	331	324	0
22	Narmada	558	118	31
23	Navsari	372	0	116
24	Panchmahal	591	376	123
25	Patan	516	421	94
26	Porbandar	179	130	16
27	Rajkot	570	387	174
28	Sabarkantha	676	266	201
29	Surat	690	0	286
30	Surendranagar	579	579	0
31	Tapi	451	0	109
32	Vadodara	645	0	225
33	Valsad	433	0	113
Total		17843	8337	3795

Annexure- 9

District wise coverage of towns areas under State Wide Drinking Water Supply Grid

Sr. no	District	Total nos. of towns in district	Towns areas covered	
			Narmada Based Water Supply Projects	Other Source Based Water Supply Projects
1	Ahmedabad	12	5	0
2	Amreli	10	10	0
3	Anand	15	0	0
4	Arvalli	6	0	1
5	Banaskantha	12	8	3
6	Bharuch	21	0	4
7	Bhavnagar	18	18	0
8	Botad	5	5	0
9	Chhota Udepur	6	0	0
10	Dahod	5	0	1
11	Dangs	3	0	2
12	Devbhoomi dwarka	8	8	0
13	Gandhinagar	15	15	0
14	Gir Somanath	6	5	0
15	Jamnagar	8	8	0
16	Junagadh	9	8	0
17	Kachchh	14	14	0
18	Kheda	10	1	0
19	Mehsana	10	8	2
20	Mahisagar	4	0	3



Sr. no	District	Total nos. of towns in district	Towns areas covered	
			Narmada Based Water Supply Projects	Other Source Based Water Supply Projects
21	Morbi	9	9	0
22	Narmada	5	1	0
23	Navsari	13	0	0
24	Panchmahal	8	1	1
25	Patan	6	5	0
26	Porbandar	6	6	0
27	Rajkot	15	11	0
28	Sabarkantha	9	5	1
29	Surat	23	0	3
30	Surendranagar	8	8	0
31	Tapi	4	0	0
32	Vadodara	19	0	6
33	Valsad	28	0	10
Total		350	159	37

Annexure- 10
District wise Rural household tap connectivity

Sr. No.	District	Total Rural household as on (01/04/2016)	Household Connections with PWS as on (01/04/2016)	During the year 2016-17	Total Rural Household connections as on (31/03/2017)	% of total household connections
1	2	3	4	5	6 = 4 + 5	7
1	AHMEDABAD	231280	136511	60754	197265	85.29
2	AMRELI	146266	140815	0	140815	96.27
3	ANAND	315767	273163	25	273188	86.52
4	ARAVALLI	170062	82066	11644	93710	55.1
5	BANAS KANTHA	413410	244410	11031	255441	61.79
6	BHARUCH	239898	177492	1139	178631	74.46
7	BHAVNAGAR	234352	213636	0	213636	91.16
8	BOTAD	79025	64660	0	64660	81.82
9	CHHOTA UDEPUR	188936	65346	3633	68979	36.51
10	DANG	37224	34093	0	34093	91.59
11	DEVBHOO MI DWARKA	92247	68770	0	68770	74.55
12	DAHOD	302043	108388	0	108388	35.88
13	GANDHINAGAR	178310	175866	0	175866	98.63
14	GIR SOMNATH	104980	86624	0	86624	82.51



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Sr. No.	District	Total Rural household as on (01/04/2016)	Household Connections with PWS as on (01/04/2016)	During the year 2016-17	Total Rural Household connections as on (31/03/2017)	% of total household connections
1	2	3	4	5	6 = 4 + 5	7
15	JAMNAGAR	102082	84593	93	84686	82.96
16	JUNAGADH	127376	113964	0	113964	89.47
17	KACHCHH	257899	153046	65231	218277	84.64
18	KHEDA	301898	212055	0	212055	70.24
19	MEHSANA	345255	329119	3480	332599	96.33
20	MAHISAGAR	166598	104923	272	105195	63.14
21	MORBI	122699	58935	2045	60980	49.7
22	NARMADA	111075	36379	28732	65111	58.62
23	NAVSARI	175846	94789	708	95497	54.31
24	PANCH MAHAL	254908	105820	4091	109911	43.12
25	PATAN	190438	144793	0	144793	76.03
26	PORBANDAR	55356	35644	2830	38474	69.5
27	RAJKOT	240163	196595	7450	204045	84.96
28	SABAR KANTHA	213289	164013	2938	166951	78.27
29	SURAT	302369	258971	2766	261737	86.56
30	SURENDRANAGAR	209089	194585	0	194585	93.06
31	TAPI	155747	88056	24129	112185	72.03
32	VADODARA	208820	182521	1186	183707	87.97
33	VALSAD	202851	87793	790	88583	43.67
Total		6477558	4518434	234967	4753401	73.38

Annexure- 11
District wise quantity of water supplied to Rural & Urban areas Served
by Water Supply Department (In 10 lacs Ltrs)

Sr. No.	District	Narmada Cannal Network	Other Surface source	Ground water source
1	Ahmedabad	25117.89	0.00	5330.93
2	Amreli	31289.07	873.03	0.00
3	Anand	0.00	3795.75	1483.12
4	Arvalli	0.00	0.00	2110.14
5	Banaskantha	25758.55	22251.80	9546.12
6	Bharuch	0.00	10367.34	175.59
7	Bhavnagar	28413.79	1789.56	87.22
8	Botad	20736.95	310.00	0.00
9	Chhotaudepur	429.29	196.64	94.42
10	Dahod	0.00	4068.56	470.43
11	Devbhumi Dwarka	14627.55	3986.25	142.14
12	Gandhinagar	80353.99	0.00	0.00
13	Gir Somnath	9313.31	4966.60	3751.09
14	Jamnagar	59010.37	15462.52	6527.50
15	Junagadh	6300.75	4866.94	3478.30
16	Kachchh	79723.21	16987.71	32224.97
17	Kheda	1819.86	8881.15	7239.69
18	Mehsana	42130.34	30113.75	0.00
19	Mahisagar	0.00	14965.72	0.00
20	Morbi	24067.68	11495.12	0.00
21	Narmada	1565.48	0.00	0.00
22	Navsari	0.00	4236.29	2.61
23	Panchmahal	9763.57	7316.52	0.00



(In10 lacs Ltrs)

Sr. No.	District	Narmada Cannal Network	Other Surface source	Ground water source
24	Patan	24939.64	14541.00	892.20
25	Porbandar	8090.39	7294.75	225.90
26	Rajkot	115750.78	9679.50	29.00
27	Sabarkantha	6144.27	2952.77	3612.08
28	Surat	0.00	26356.17	0.00
29	Surendranagar	55314.31	0.00	0.00
30	Tapi	0.00	3303.86	77.71
31	Dang	0.00	541.17	994.85
32	Vadodara	0.00	4472.20	3481.99
33	Valsad	0.00	9239.96	1731.27
Grand Total (IN ML)		670661.04	245312.63	83709.27
IN MLD (Average)		1837.43	672.09	229.34

Annexure- 12

**District wise quantity of water supplied to Rural, Urban & Industries
Served by Water Supply Department. (In10 lacs Ltrs)**

Sr. No.	District	Rural	Urban	Industries	Total
1	Ahmedabad	24602.38	4859.21	987.07	30448.66
2	Amreli	23369.72	8792.00	0.00	32161.72
3	Anand	5278.90	0.00	0.00	5278.90
4	Arvalli	2107.28	0.00	2.65	2109.93
5	Banaskantha	47906.12	8926.76	723.60	57556.48
6	Bharuch	8623.81	1899.80	19.14	10542.75
7	Bhavnagar	22068.43	8222.38	0.00	30290.81
8	Botad	13570.67	7475.99	0.00	21046.66
9	Chhotaudepur	720.35	0.00	0.00	720.35
10	Dahod	4541.99	0.00	0.00	4541.99
11	Devbhumi Dwarka	15630.04	3127.20	0.00	18757.24
12	Gandhinagar	46718.78	24617.03	9018.03	80353.84
13	Gir Somnath	15300.90	2733.60	0.00	18034.50
14	Jamnagar	25080.66	35362.48	20556.75	80999.89
15	Junagadh	10914.34	3730.15	0.00	14644.49
16	Kachchh	77714.09	34128.54	17093.19	128935.82
17	Kheda	17653.89	279.09	7.60	17940.58
18	Mehsana	46850.88	25220.92	170.98	72242.78
19	Mahisagar	14965.81	0.00	0.00	14965.81
20	Morbi	22240.40	11501.80	1820.00	35562.20
21	Narmada	1565.48	0.00	0.00	1565.48
22	Navsari	4238.95	0.00	0.00	4238.95
23	Panchmahal	13905.06	2562.53	612.25	17079.84



(In 10 lacs Ltrs)

Sr. No.	District	Rural	Urban	Industries	Total
24	Patan	35284.48	5088.36	0.00	40372.84
25	Porbandar	5309.09	9321.25	980.70	15611.04
26	Rajkot	33985.04	91474.74	0.00	125459.78
27	Sabarkantha	10761.83	1947.38	0.00	12709.21
28	Surat	25174.97	1181.20	0.00	26356.17
29	Surendranagar	42651.24	10997.57	1665.39	55314.20
30	Tapi	3381.03	0.00	0.00	3381.03
31	Dang	1538.67	0.00	0.00	1538.67
32	Vadodara	7126.82	829.85	0.00	7956.67
33	Valsad	10971.27	0.00	0.00	10971.27
Grand Total (IN ML)		641753.37	304279.83	53657.35	999690.55
IN MLD (Average)		1758.23	833.64	147.01	2738.88

Annexure- 13

District wise Water Treatment Plants (Completed)

Sr No	District	Name of Scheme	Capacity in MLD
1	Dang	Dhavidod	0.30
2	Narmda	Narmada No Source Part- 1	6.75
3	Narmda	Savli-Agar	2.20
4	Narmda	Jitnagar Sundarpura	3.52
5	Dang	Galkund	0.30
6	Panchmahal	Panam	18.50
7	Panchmahal	Vanakbori	13.20
8	Panchmahal	Panam kotha	9.50
9	Panchmahal	PM 3-B	32.90
10	Panchmahal	PM 3-A	73.30
11	Panchmahal	PM 4-B	27.50
12	Surat	Umarpada	2.78
13	Chhota Udepur	Naswadi	12.62
14	Surat	Gay-pagla	12.72
15	Surat	Variav	60.00
16	Surat	Borsad Deghadia	7.43
17	Surat	Vanskui	7.43
18	Surat	Umra	7.92
19	Dang	Saputara	1.35
20	Dang	Saputara	1.00
21	Vadodara	Savli	12.25



Sr No	District	Name of Scheme	Capacity in MLD
22	Vadodara	Padra	33.34
23	Vadodara	Waghodiya	13.40
24	Bharuch	Daxinbara part-1	5.00
25	Bharuch	Daxinbara part-2	6.10
26	Bharuch	Nikora	9.00
27	Bharuch	Rundh-Rajparadi	10.00
28	Tapi	South Nizar	8.00
29	Tapi	Naranpura	4.78
30	Tapi	Malangdev	1.00
31	Bharuch	Madhyabara	1.50
32	Bharuch	Narmadabara	32.00
33	Bharuch	Gadkhol-Dadhal	17.00
34	Bharuch	Narmadabara	1.60
35	Tapi	Jesingpura	4.77
36	Tapi	Dolvan	5.92
37	Mahisagar	Thanasavli	6.00
38	Mahisagar	Hindoliya	6.00
39	Mahisagar	Charnagam (Namnar)	5.23
40	Mahisagar	Karanta	8.60
41	Mahisagar	Kadana Part 1-2	14.00
42	Mahisagar	Namnar	6.50
43	Mahisagar	Kheroli	7.49
44	Navsari	Vanshi-Borsi	1.00



Sr No	District	Name of Scheme	Capacity in MLD
45	Navsari	Sultanpura-Onjal	2.54
46	Navsari	Mangrol-Dalki	2.60
47	Navsari	Hansapor	4.52
48	Navsari	Devdha-Karod	6.93
49	Navsari	Bigri-Malvan	2.16
50	Navsari	Kakadveri-pati	1.26
51	Navsari	Juj	2.60
52	Navsari	Keliya	7.30
53	Dahod	Bhanasimal Part-1/Part-2	22.00
54	Dahod	Machhannala	6.67
55	Valsad	Pardi Coastal	4.55
56	Valsad	Kanjan hari	1.60
57	Valsad	Umargam	19.15
58	Valsad	Bigri Malvan	1.00
59	Valsad	Dived Hariya	2.46
60	Valsad	Lilapor Bhadeli	1.13
61	Valsad	Kosamkuva Chinchai	2.86
62	Valsad	Raval	5.75
63	Valsad	Valsad Periferi	6.43
64	Dang	Kirli(polsmal)	0.30
65	Dang	Subir	0.30
66	Dang	Manmyar	0.30
67	Dang	Jarsol	0.30



Sr No	District	Name of Scheme	Capacity in MLD
68	Patan	P-1 (Boratwada)	27.00
69	Patan	P-1 (Hajipur)	27.00
70	Patan	Sami-Sankheshwar	11.40
71	Arvalli	Majum & SK-2	8.61
72	Banaskantha/Patan	BK 3/P-2	50.00
73	Banaskantha	BK-4, Phase-3-B	31.50
74	Banaskantha	Sipu	24.00
75	Banaskantha	BK-4, Phase-2-A	33.00
76	Banaskantha	BK-4, Phase-2-B	26.00
77	Banaskantha	Dantiwada Dam based BK-5	40.00
78	Gandhinagar	G-2	32.00
79	Gandhinagar	G-1	5.00
80	Anand	Milrampura/Gorad	10.00
81	Anand	Meghalpur	4.50
82	Anand	Vanktalav	1.68
83	Anand	Ras	9.16
84	Mehsana	NCD-5 (M-2) Bechraji/Chanasma Taluka	45.00
85	Ahmedabad	A-1	36.00
86	Ahmedabad	A-2	75.00
87	Ahmedabad	A-3	27.60
88	Ahmedabad	A-4	33.00
89	Ahmedabad	Seven RWSS (Jaliya offteck)	9.00

Sr No	District	Name of Scheme	Capacity in MLD
90	Ahmedabad	Seven RWSS (Pipli offteck)	21.00
91	Ahmedabad	Seven RWSS (Varna offteck)	5.00
92	Gandhinagar	G-1	16.00
93	Gandhinagar	G-2	26.00
94	Gandhinagar	M-1 part-2	50.00
95	Gandhinagar	M-1 part-2	30.00
96	Gandhinagar	NC-14 (Saritaudyan)	30.00
97	Gandhinagar	NC-14 (Charedi)	30.00
98	Mehsana	M-1 part-1 kadi	50.00
99	Sabarkantha	Guhai	7.87
100	Sabarkantha	SK-1 (kaniyol Section)	34.00
101	Sabarkantha	SK-1	12.00
102	Sabarkantha	SK-1 (Fatepura Section)	34.00
103	Sabarkantha	Four RWSS (Mahor HW)	13.00
104	Mehsana	NCD-5 (M-2) Mehsana Taluka	91.00
105	Gandhinagar	G-3	21.00
106	Mehsana	Vijapur Kantha part-1	8.52
107	Mehsana	Vijapur Kantha part-2	16.04
108	Mehsana	Dharoi	174.00
109	Arvalli	Hathmati	4.00
110	Anand	Bhal pradesh	21.40
111	Kheda	Kapadwanj South zone	17.75
112	Arvalli	SK-4 part-2	12.00



Sr No	District	Name of Scheme	Capacity in MLD
113	Kheda	Pariej	10.00
114	Kheda	Nagrama	7.20
115	Kheda	Vanoda	20.00
116	Arvalli	SK-4 part-1 & Hathmati	12.00
117	Kheda	Kapadwanj-Lasundra	24.50
118	Surendranagar	Surendranagr Inte. Phase-2 (Vagdiya HW)	16.50
119	Surendranagar	Surendranagr Inte. Phase-2 (Thangadh HW)	54.00
120	Rajkot	Bhadar-2	8.00
121	Rajkot	Fofal Part 1-2	4.00
122	Rajkot	Paddhari Group	10.00
123	Rajkot	Machchhu-1	8.00
124	Rajkot	Lodhika Group + Ribda Group+Kotda Group	22.00
125	Morbi	NCD-4 RWSS (Halvad HW)	18.20
126	Morbi	Tankara Group (Bedi HW)	4.50
127	Rajkot	Jetpur Group(Devki Galol HW)	10.50
128	Surendranagar	S-2/S-3(Acharada HW)	15.00
129	Surendranagar	NCD-4 RWSS (Vitthalgadh HW)	14.33
130	Morbi	Tankara Group (Hirapar HW)	11.00
131	Rajkot	Venu-2	4.00
132	Morbi	MMJ (Najarbaug HW)	12.56
133	Surendranagar	Surendranagr Inte. Phase-2 (Jasapar-1 HW)	3.30



Sr No	District	Name of Scheme	Capacity in MLD
134	Surendranagar	NCD-4 RWSS (Isadra HW)	33.65
135	Morbi	MMJ (Khirai HW)	11.00
136	Rajkot	Bhadli Group + Vinchhiya Group (Modhuka HW)	15.00
137	Rajkot	Moviya	13.00
138	Morbi	MMJ (NC-7 HW)	17.00
139	Rajkot	Moj Dam based	2.88
140	Rajkot	Rajkot Group+Bhadla Group+Santhali Group(Babra HW)	34.00
141	Morbi	MMJ (Najarbaug HW)	9.00
142	Surendranagar	S-2/S-3(Laxmisar HW)	34.00
143	Morbi	Lilapar Khanpar	3.20
144	Rajkot	jetpur Amaranagr HW	3.00
145	Rajkot	Jetpur Group+Gondal Group(Gondal HW)	15.00
146	Surendranagar	Surendranagar Inte. Phase-2 (Jasapar 2 HW)	3.60
147	Kachchh	Nakhtrana Part-3	5.00
148	Kachchh	Mundra (Vaghura WTP)	10.00
149	Kachchh	Anjar	9.00
150	Kachchh	Mandvi Part-3 (Gadhsisa)	15.00
151	Kachchh	Mandvi Part-1 (Bidida)	9.00
152	Kachchh	Khirsara (Khirsara)	17.00
153	Kachchh	Bhuj Part-2 (K-2/1)	10.00



Sr No	District	Name of Scheme	Capacity in MLD
154	Kachchh	Shivlakha (Shivlakha)	3.00
155	Kachchh	Khirsara (Rasaliya)	5.00
156	Kachchh	Bhachau (Gurukrupa HW)	27.00
157	Kachchh	Banni	9.00
158	Kachchh	Bhachau (Samkhiyali HW)	25.00
159	Kachchh	Manjal Complex	3.00
160	Kachchh	Bhuj Part-1	4.00
161	Kachchh	Kandla-Gandhidham (Tappar WTP)	9.00
162	Gir Somnath	Una Diu	9.65
163	Gir Somnath	Machchundri	3.80
164	Gir Somnath	Bedia Machchundri (Kesariya HW)	11.00
165	Gir Somnath	Bedia Machchundri	7.60
166	Gir Somnath	Sonariya	12.00
167	Gir Somnath	Veraval	12.12
168	Porbandar	Porbandar	5.00
169	Porbandar	Barda	4.00
170	Porbandar	Kutiyana	5.00
171	Bhavnagar	Shihor	35.00
172	Junagadh	Keshod	21.00
173	Junagadh	Visavadar	25.00
174	Junagadh	Dhrafad	5.70
175	Jamnagar	Khijadiya	20.00
176	Jamnagar	Sasoi	5.50



Sr No	District	Name of Scheme	Capacity in MLD
177	Jamnagar	Panna (Panna HW)	3.00
178	Jamnagar	Panna (Moti Khavdi HW)	4.50
179	Jamnagar	Kalavad Group(Nikava)	12.65
180	Jamnagar	Kalavad Group(Fulzar)	4.50
181	Junagadh	Ozat-2	19.00
182	Junagadh	Bhadar-2	5.56
183	Jamnagar	Jamjodhpur	7.08
184	Devbhumi Dwarka	OkhaMandal	8.00
185	Devbhumi Dwarka	Kalyanpur Group	21.00
186	Devbhumi Dwarka	Ghee-1	5.60
187	Devbhumi Dwarka	Raval	3.00
188	Devbhumi Dwarka	Harshad	5.00
189	Devbhumi Dwarka	Bhanvad	8.00
190	Devbhumi Dwarka	Vartu-2	3.65
191	Botad	Botad	29.00
192	Bhavnagar	Mahuva (Dudhala)	4.00
193	Jamnagar	Aji-3 (Kothadhar HW)	8.60
194	Amreli	Raydi Group Dam site	4.00
195	Bhavnagar	Mahuva (Rojki)	23.00
196	Amreli	Babra Group Chamaradi HW	12.00
197	Bhavnagar	Budhel	16.00
198	Bhavnagar	Pasvi	23.00



Sr No	District	Name of Scheme	Capacity in MLD
199	Amreli	Lathi Liliya Chavand (Chavand HW)	22.00
200	Amreli	Dhari Group (Morzar HW)	17.00
201	Junagadh	Bhensan	10.20
202	Junagadh	Junagadh Vanthali	31.20
203	Bhavnagar	Mahuva (Rojki)	5.00
204	Botad	Gadhda	30.00
205	Amreli	Jangar Group (Ujala HW)	25.00
206	Amreli	Babra Group (Babra HW)	34.00
207	Botad	Seven RWSS (Navda offteck)	23.65
208	Amreli	Rajula Group (Chhatadiya HW)	30.00
209	Amreli	Ishwariya (Ishwariya HW)	11.50
210	Amreli	Jangar Group (Khakhriya HW)	6.00
211	Jamnagar	Morbi Maliya Jodiya	4.10
212	Amreli	Savarkundla Group Simaran	42.00
213	Jamnagar	Kalavad Group(Nana Panchdevda)	39.00
214	Bhavnagar	Vallabhipur	23.00
215	Amreli	Lathi Liliya Chavand (Damnagar HW)	8.90
216	Jamnagar	Jamnagar	5.55
217	Bhavnagar	Tansa	29.00
218	Bhavnagar	Gariyadhar	11.50
219	Jamnagar	Aji-3 (Dhrol HW)	9.40
Total			3392

Annexure- 14

District wise Water Treatment Plants (Ongoing)

Sr No	District	Name of Scheme	Capacity in MLD
1	Vadodara	Vaghodiya RWSS	14.50
2	Vadodara	Dabhoi	35.00
3	Chhota Udepur	Hafeshwar RWSS	25.00
4	Chhota Udepur	Sankheda Part-1	8.50
5	Chhota Udepur	Sankheda Part-1	7.00
6	Chhota Udepur	Sankheda-Bodeli	35.00
7	Narmada	Sagbara-Dediyapada (Package-2)	25.81
8	Narmada	Sagbara-Dediyapada (Package-3)	28.22
9	Panchmahal	Hareda RWSS	25.00
10	Dahod	Hirola RWSS	18.20
11	Mahisagar	Sarsadi Vachchhala Dungar RWSS	9.30
12	Surat	Kakrapar RWSS	42.00
13	Dahod	DDSA Kanjeta- Piper RWSS	25.00
14	Dahod	DDSA Kanjeta- Piper RWSS	7.00
15	Dahod	DDSA Patadungri RWSS	35.20
16	Dahod	DDSA Jesavada-Gangardi RWSS	47.00
17	Dahod	DDSA Mandor RWSS	16.20
18	Bharuch	Narmadabara Augmentation	42.60



Sr No	District	Name of Scheme	Capacity in MLD
19	Bharuch	Narmadabara Augmentation	16.20
20	Bharuch	Narmadabara Augmentation	34.50
21	Tapi	Borisavar RWSS	21.50
22	Ahmedabad	Bhangadh RWSS	5.00
23	Banaskantha	Diodar Rurban	6.00
24	Patan	Sami-Sankheshwar RWSS	45.00
25	Arvalli	SK-2, Part-1A	61.00
26	Arvalli	SK-2, Part-2A	36.00
27	Arvalli	SK-2, Part-1, Satarda	25.00
28	Arvalli	SK-3, Part-3, Kunol	3.00
29	Kheda	Fagvel RWSS	6.10
30	Kutch	Abdasa Package-2	6.10
31	Kutch	Lakhpat Package-5	11.00
32	Porbandar	Ranavav Group	18.00
33	Junagadh	Bhadar-2 RWSS	5.54
34	Gir-Somnath	Una-Diu RWSS	9.65
35	Bhavnagar	Shihor Aug.	35.00
36	Bhavnagar	Pasvi Aug.	23.00
37	Amreli	Raydi Group Aug. (Hemal)	4.50
	Total		818.62

Annexure- 15

Statement showing details of Budget Provision, Grant Released &
Expenditure Incurred for the Year 2016-17

Sr. No.	Name of Programme	Financial Details (Rs. in Lacs)			
		Original Budget Provision	Revised Budget Provision	Grant Released	Total Expenditure Incurred
(A)	State Budget (Plan)				
1	Research and Development				
	(1.1) Research and Development	600.00	600.00	600.00	308.84
	(1.2) water Conservation & Prevention of Wastage of Water	300.00	300.00	300.00	107.68
	Sub- Total:1	900.00	900.00	900.00	416.52
2	Rural Water Supply Schemes - General				
	(1.1) Rural Water Supply Schemes - General	66807.00	75770.27	68892.38	92318.59*
	(1.2) Non-Divisible flow to Sc.(WSB)	0.00	0.00	0.00	2791.25*
	(1.3) Rural Water Supply General (WASMO)	0.00	0.00	6384.20	2766.25
	(1.4) NRDWP(State Share)WSB	14300.00	10895.69	8029.35	1.54
	(1.5) NRDWP(State Share) WASMO	0.00	0.00	1594.80	10756.95*
	(1.6) NRDWP-DDP(State Share)	3600.00	3440.00	3933.66	3749.53
	(1.7) NRDWP-Support Fund (State Share)	740.00	865.33	786.95	804.21*



Sr. No.	Name of Programme	Financial Details (Rs. in Lacs)			
		Original Budget Provision	Revised Budget Provision	Grant Released	Total Expenditure Incurred
	(1.8) NRDWP Water Quality (State Share)	470.00	519.33	236.08	489.34*
	(1.9) Sujalam Sufalam Yojana, Gen.	0.00	0.00	0.00	163.25*
	(1.10) E.B.R	30000.00	30000.00	0.00	0.00
	Sub- Total:2	115917.00	121490.62	89857.42	113840.91
3	Rural Water Supply Schemes - Schedule Tribe				
	(3.1) Rural Wate Supply Scheme Tribal Areas (W.S.B)	42700.00	40258.28	36442.23	39127.51*
	(3.2) Rural Wate Supply Scheme Tribal Areas (WASMO)		0.00	3988.40	1522.86
	(3.3) D.D.P (State Shre) Tibal Area	533.00	1189.42	895.12	9.56
	(3.4) NRDWP(State Share)WSB	2200.00	3985.30	2400.35	0.00
	(3.5) NRDWP(State Share) WASMO	0.00	0.00	511.60	443.39
	(3.6) Under TDD (Including TDD)(New Guj.Pattern and seed Budget)	7400.00	6660.00	0.00	0.00
	(3.7) Special Provision Under 93 (Including T.D.D.)	200.00	180.00	0.00	0.00
	(3.8) Sujalm Suflam Yojana	0.00	0.00	0.00	25.70*
	(3.9) E.B.RA	20000.00	20000.00	0.00	0.00
	Sub-Total :3	73033.00	72273.00	44237.70	41129.02

Sr. No.	Name of Programme	Financial Details (Rs. in Lacs)			
		Original Budget Provision	Revised Budget Provision	Grant Released	Total Expenditure Incurred
4	Rural Water Supply Schemes - S.C				
	(4.1) Rural Water Supply Scheme	2500.00	2500.00	2500.00	765.17
	(4.2) DDP State Share	1200.00	390.00	390.00	11.66
	(4.3) NRDWP State Share	0.00	0.00	0.00	11.60*
	Sub-Total :4	3700.00	2890.00	2890.00	788.43
5	Water Supply Scheme based on Sardar Sarovar Canal				
	(5.1) Capital Provision (W.S.B)	0.00	0.00	0.00	3807.45*
	(5.2) Non Divisible Flow to S.C. (WSB)	0.00	0.00	0.00	0.00
	(5.3) Capital Provision (GWIL)	69300.00	69300.00	69300.00	67326.91
	(5.4) Non divisible Flow to S.C (GWIL)	0.00	0.00	0.00	0.00
	(5.5) Company Equity Contribution	500.00	500.00	500.00	500.00
	(5.6) E.B.R.	30000.00	30000.00	0.00	0.00
	Sub Total :5	99800.00	99800.00	69800.00	71634.36
6	Urban Water Supply Scheme	14500.00	14500.00	14500.00	133.04
7	Drinking Water Infrastructure Protection Task Force	500.00	500.00	500.00	1084.56*
8	Mukhya Mantri Pani Samiti Protsahan Yojan - Navi Babat	150.00	150.00	150.00	99.24
9	Local 10% Contribution under tribal Area Rural WSS	500.00	500.00	500.00	787.33*
	Total A (1 to 9)	309000.00	313003.62	223335.12	229913.41



Sr. No.	Name of Programme	Financial Details (Rs. in Lacs)			
		Original Budget Provision	Revised Budget Provision	Grant Released	Total Expenditure Incurred
(B)	Central Sponsored				
10	National Rural Drinking water Programme				
	(10.1) National Rural Drinking Water Programme Normal (GWSSB)	21200.00	15923.86	12530.12	29760.39*
	(10.2) National Rural Drinking Water Programme(WASMO)	0.00	0.00	2369.00	3735.06*
	(10.3) National Rural drinking Water Programme DDP (GWSSB)	8000.00	8097.77	7827.14	9417.55*
	(10.4) N.R.D.W.P - Water Quality Monitoring & Surveillance (WASMO)	700.00	779.00	354.12	734.01*
	(10.5) N.R.D.W.P Support Activities(WASMO)	1100.00	1298.00	1180.41	1206.31*
	(9.5) N.R.D.W.P 5 % Earmarked Fund for Water Quality (GWSSB)	0.00	137.75	0.00	0.00
	Total B	31000.00	26236.38	24260.79	44853.32
(C)	Standing Charges (Non Plan)				
11	Direction & Administration	4000.00	4200.00	4200.00	21660.15*
12	Maintenance & Repairs	6600.00	6600.00	6600.00	29603.09*
13	Survey and Investigation	22.00	22.00	22.00	6.02
14	Machinery and Equipment	20.00	20.00	20.00	0.76
	Total C	10642.00	10842.00	10842.00	51270.02
	Total (A+B+C)	350642.00	350082.00	258437.91	326036.75

Note : * In case of expenditure exceed against received grant, the excess expenditure is incurred from Board Funds.

Annexure- 16
District wise number of sources tested

S.No.	District	Tested Source	Tested Samples
1	AHMEDABAD	1408	2354
2	AMRELI	1828	3013
3	ANAND	2259	3971
4	ARAVALLI	3044	4022
5	BANAS KANTHA	849	2486
6	BHARUCH	1369	2690
7	BHAVNAGAR	2017	3050
8	BOTAD	1981	3008
9	CHHOTAUDEPUR	1953	2846
10	DANG	2361	4137
11	DEVBHoomI DWARKA	2349	3035
12	DAHOD	2887	4003
13	GANDHINAGAR	1060	1501
14	GIR SOMNATH	1449	3043
15	JAMNAGAR	1185	1950
16	JUNAGADH	2247	3058
17	KACHCHH	1517	2693
18	KHEDA	1753	3651
19	MEHSANA	1806	3477
20	MAHISAGAR	2386	3917
21	MORBI	2326	3032
22	NARMADA	1686	2542
23	NAVSARI	3674	4708



S.No.	District	Tested Source	Tested Samples
24	PANCH MAHAL	2774	3818
25	PATAN	1013	1918
26	PORBANDAR	1429	2429
27	RAJKOT	2431	3040
28	SABAR KANTHA	1717	3029
29	SURAT	2374	2554
30	SURENDRANAGAR	2507	3320
31	TAPI	5226	6259
32	VADODARA	959	1134
33	VALSAD	3890	5820
Total		69714	10850



Annexure- 17
District wise water samples tested by Field Test Kits

Sr.No	District	Tested Samples
1	AHMEDABAD	506
2	AMRELI	1732
3	ANAND	1674
4	ARAVALLI	441
5	BANASKANTHA	573
6	BHARUCH	346
7	BHAVNAGAR	178
8	BOTAD	621
9	CHHOTAUDEPUR	154
10	DANG	1703
11	DEVBHOOMI DWARKA	36
12	DAHOD	2591
13	GANDHINAGAR	360
14	GIR SOMNATH	1435
15	JAMNAGAR	244
16	JUNAGADH	1302
17	KACHCHH	2183
18	KHEDA	296
19	MAHESANA	2120
20	MAHISAGAR	1111



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Sr.No	District	Tested Sample
21	MORBI	1061
22	NARMADA	235
23	NAVSARI	2908
24	PANCH MAHAL	2276
25	PATAN	592
26	PORBANDAR	985
27	RAJKOT	1706
28	SABARKANTHA	4298
29	SURAT	7081
30	SURENDRANAGAR	2262
31	TAPI	282
32	VADODARA	693
33	VALSAD	1265
Total		45250

Gujarat Water Supply and Sewerage Board
Control Room Toll Free Help Line No. 1916
E-mail : gwssbhocontrol@gmail.com