

KERALA WATER AUTHORITY



ANNUAL ADMINISTRATIVE REPORT 2017-18

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CHAPTER -I

KERALA WATER AUTHORITY – A PROFILE

- 1.1 Kerala Water Authority was established by the Government of Kerala on 1st of April, 1984 under the Kerala Water and Waste Water Ordinance, 1984 to provide development and regulation of water supply and waste water collection and disposal in the State of Kerala and for matters connected therewith. The ordinance was replaced by the Kerala Water Supply and Sewerage Act, 1986 (Act 14 of 1986)
- 1.2 The Authority was established by vesting the properties and assets of the erstwhile Public Health Engineering Department under section 16 of the Act and the assets, rights and liabilities of the Local Bodies and the Kerala State Rural Development Board in so far as they pertain to the execution of water supply and sewerage schemes under section 18 of the Act.
- 1.3 The main functions of the Authority are
 - (i) Preparation, execution, promotion, maintenance and financing of the schemes for the supply of water and disposal of waste water.
 - (ii) Planning for the State's water supply and sewerage requirements.
 - (iii) Preparation of state plans for water supply and collection and disposal of wastewater on the direction of the Government.
 - (iv) Establishment of state standards for water supply and waste water services.
 - (v) Carrying out applied research for efficient discharge of the functions of the Authority.

Making provisions for the supply of wholesome water and efficient sewerage services to the people in the state.

CHAPTER –II CONSTITUTION

2.1 The Authority consists of the following members.

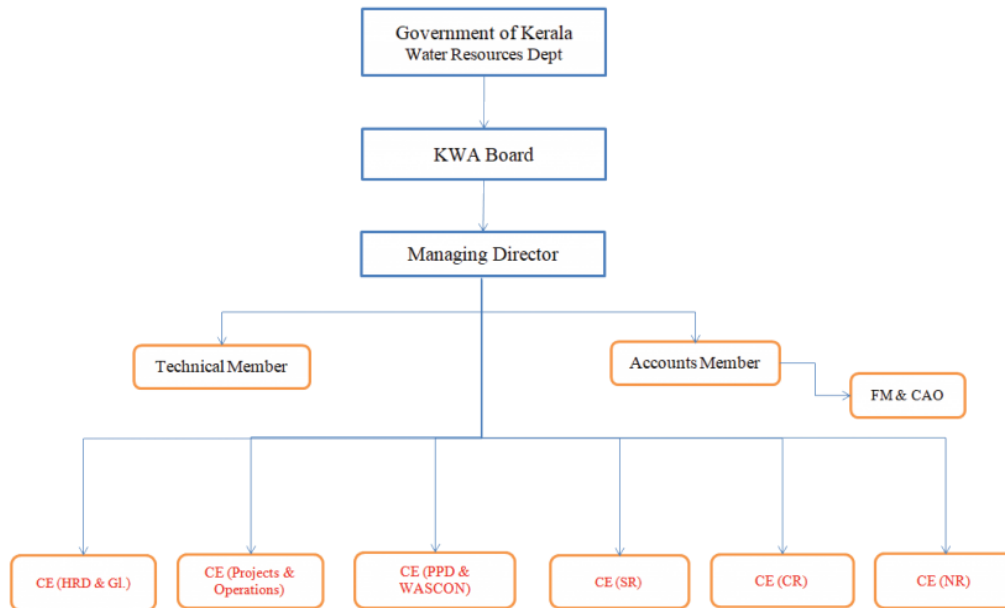
- 1 Chairman – Appointed by the Government.
- 2 Managing Director – Appointed by the Government.
- 3 Secretary to Government, Water Resources Department, Government of Kerala.
- 4 Secretary to Government, Finance Department, Government of Kerala.
- 5 Secretary to Government, Local Administration Department, Government of Kerala.
- 6 Secretary to Government, Rural Development Department, Government of Kerala.
- 7 Two members representing the Local Bodies in the state, appointed by Government.
- 8 Two members appointed by the Government, one of whom shall be a member belonging to the schedule caste / schedule tribe.
- 9 A Technical Member, appointed by the Government.
- 10 An Accounts Member, appointed by the Government

THE BOARD OF DIRECTORS		
BOARD OF DIRECTORS	NAME	TERM
Chairman KWA & Secretary, Water Resources Department	Smt. Tinku Biswal IAS	01/04/2017 to 21/01/2018
	Sri. Tom Jose IAS	22/01/2018 to till date
Secretary to Government Finance (Expenditure) (Ex-officio)	Sri. Kama Vardhana Rao IAS	01/04/2017 to 27/ 04/2017
	Sri. Tik Ram Meena IAS	28/04/2017 to 28/08/2017
	Sri. Biswanath Sinha IAS	28/08/2017 to 15/11/2017
	Smt. Sharmila Marry Joseph	16/11/2017 to till date
Principal Secretary (LSGD) (Ex-officio)	Sri. T K Jose IAS	01/04/2017 to 31/03/2018
Executive Director (KRWSA) (Ex-officio)	Sri. A R Ajayakumar IAS	01/04/2017 to 31/03/2018
Managing Director, Kerala Water Authority	Smt. A Shainamol IAS	01/04/2017 to 31/03/2018
Technical Member, Kerala Water Authority	Sri. T Raveendran	01/04/2017 to 31/03/2018
Accounts Member, Kerala Water Authority	Vacant (Sri. V S Pradeep, FM & CAO (Accounts Member in charge, Special invitee)	01/04/2017 to 07/06/2017
Non-Official Members	Sri.Chettachal Sahadevan	05/04/2017 to till date
	Sri.T V Balan	05/04/2017 to till date
	Sri.Alex Kannamala	05/04/2017 to till date
	Sri.Murugadas	05/04/2017 to till date

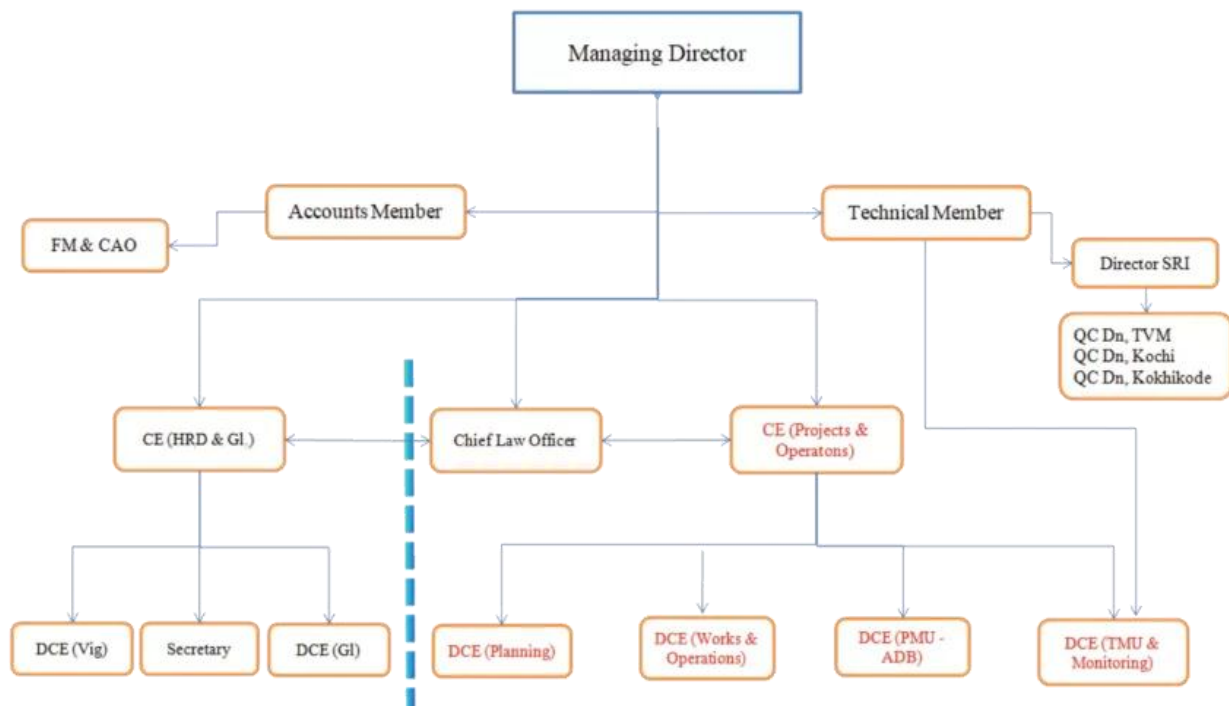
CHAPTER –III

ORGANIZATIONAL STRUCTURE

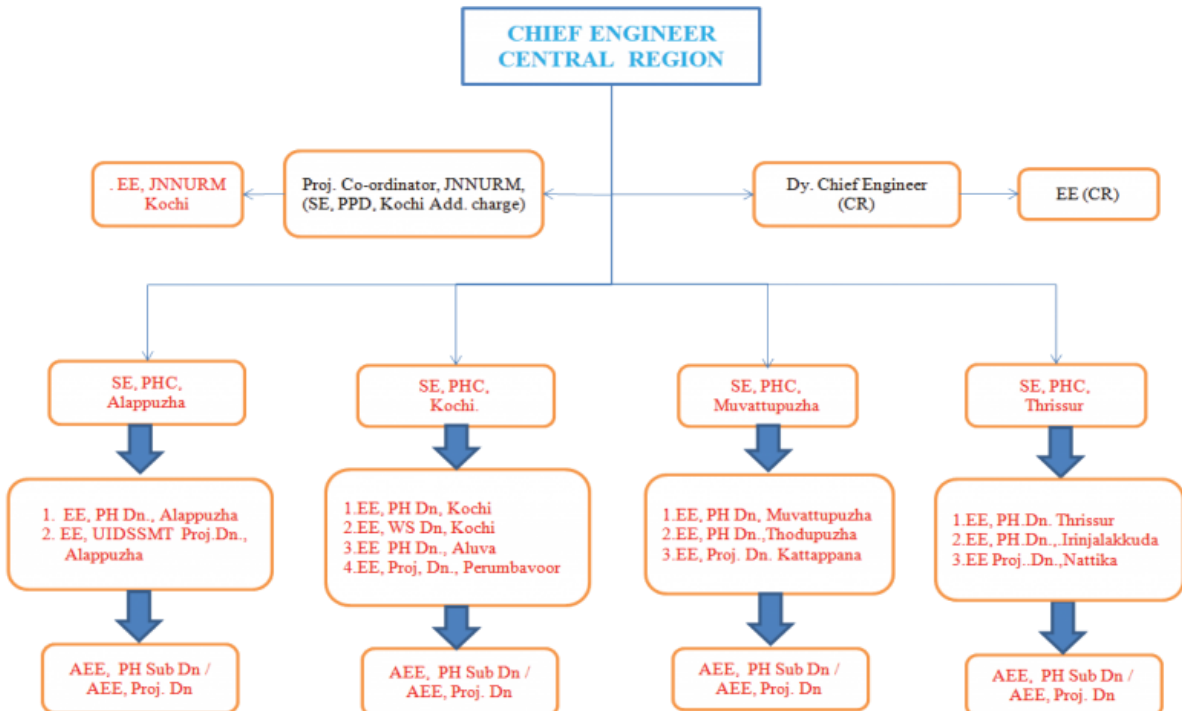
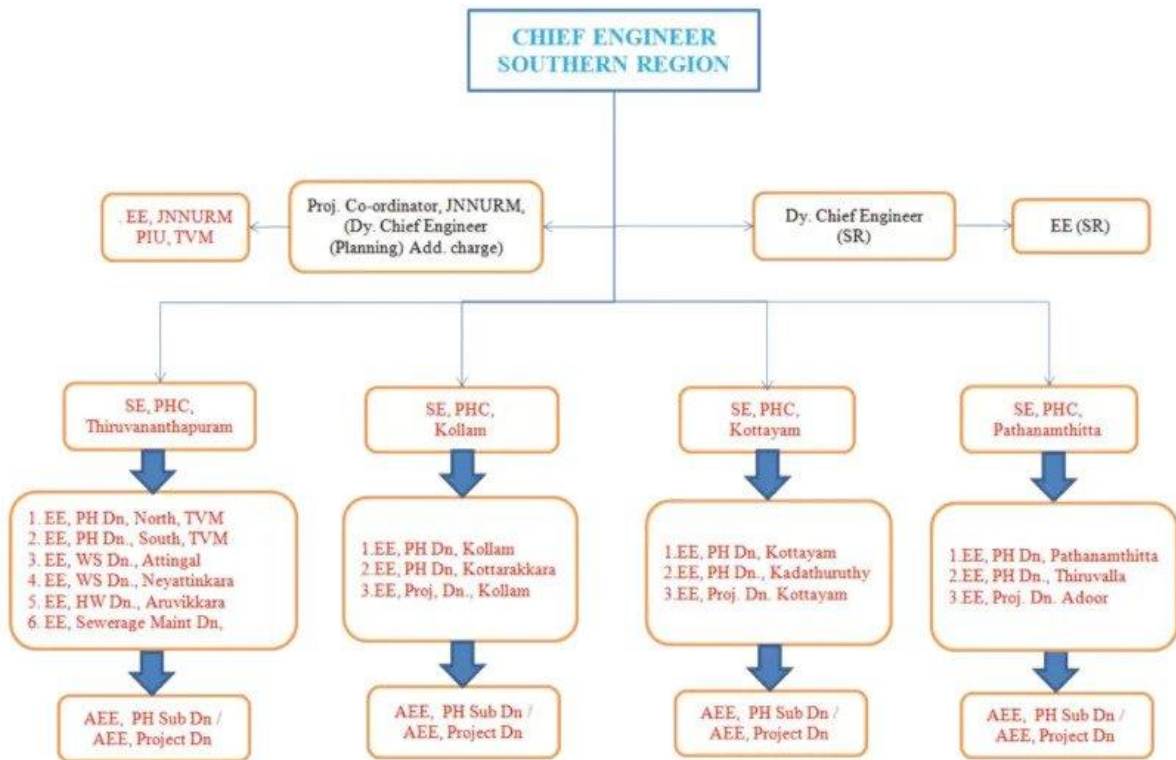
Basic Structure

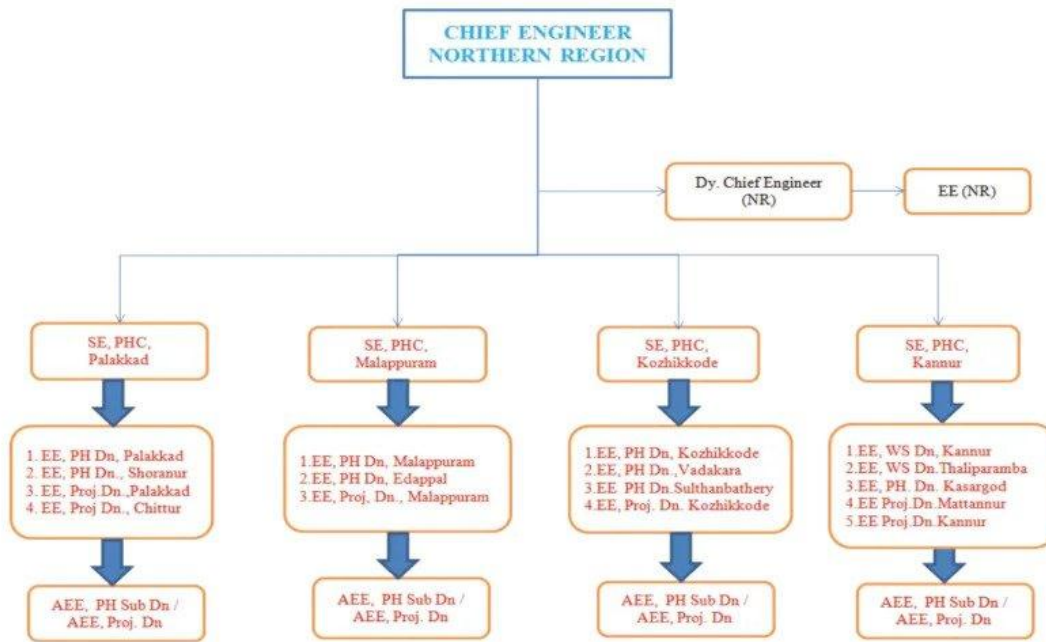


Head Office



Regional Offices





- 3.1. Kerala Water Authority has its Head Office at **JalaBhavan**, Thiruvananthapuram. The Managing Director heads the head office. There are three Regional Offices headed by Chief Engineers at Thiruvananthapuram, Kochi, Kozhikode and a Chief Engineer's office for JICA in Trivandrum. PPD & WASCON, the consultancy wing of Kerala Water Authority is headed by a Chief Engineer.

Website : <https://kwa.kerala.gov.in>

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- 3.2. There are 16 Circle Offices, 49 Division Offices, 103 Sub-Division Offices and 245 Section Offices under the regional offices. The Circle offices are headed by Superintending Engineers, Division Offices by Executive Engineers, Sub Division Offices by Assistant Executive Engineers and Section Offices by Assistant Engineers. There are separate offices for execution of projects, operation and maintenance and quality control functions. The JICA assisted KWSP has offices at the place of each of the five schemes. In addition, there is a State Referral Institute at Kochi headed by a Director in the rank of a Superintending Engineer.

3.3. Major units of KWA

3.3.1. Administrative Wing

Administrative Wing in Head Office is mainly dealing with Human Resource Management. The database regarding all categories of employees and officers (Ministerial & Technical) and its sanctioned post and promotion avenue as per special rules in force are kept almost up to date and tidy.

3.3.2. Training Centre.

A centralized training centre headed by an Executive Engineer is functioning at Trivandrum with ample training facilities. The unit carries out in-house trainings, workshops, refresher courses etc. Training Centre also facilitates the deputation of officers for higher studies and external training.

3.3.3. Vigilance Section

There is a Vigilance Wing headed by a Deputy Chief Engineer, and consisting of one Executive Engineer, two Asst. Executive Engineers and a Junior Superintendent functioning under the Technical Member. They are entrusted with the task of detailed enquiry of allegations against officers and on the execution of different works and other enquiries entrusted to it in respect of any matter affecting the Authority. The report submitted will be scrutinized by a committee headed by the Technical Member and based on the recommendation, further action would be taken in every case.

3.3.4. Internal Audit Wing

Kerala Water Authority is having an Internal Audit Wing with a section at headquarters and two teams headed by Internal Auditors. These audit teams are deployed for the yearly audit of the accounts and other records of the Division Offices. They are also responsible for the follow up action with regard to the audit findings of the Accountant General, Stock Verification Reports, Internal Audit Reports, Special Audit Reports, etc. They report directly to the Accounts Member.

3.3.7. Regional Offices

There are 3 Regional Offices.

1. Chief Engineer (Southern Region)
2. Chief Engineer (Central Region)
3. Chief Engineer (Northern Region)

3.3.8. Chief Engineer (WASCON & PPD)

Under the control of a Chief Engineer, WASCON & PPD the consultancy wing of KWA and is authorised to undertake consultancy and construction works in Civil Engineering, provide services to LSGs while taking up infrastructure projects in water and sanitation sector.

3.3.9. Circle Offices

There are 16 Circle Offices. The Circle offices are headed by Superintending Engineers.

3.3.10. Division offices.

The major activities (operation, management, and execution of Water supply & sewerage schemes) of Kerala Water Authority are centered on the Divisions. 49 Division Offices, 103 Sub-Division Offices and 245 Section Offices under the regional offices

The various Divisions and their functions are:

i. Water Supply / P.H. Divisions.

These divisions are dealing with the operation & maintenance of water supply schemes which are run by Kerala Water Authority. Execution of deposit works of Local Bodies and other agencies are also carried out by these Divisions. Revenue collection of KWA is also done by these Divisions.

ii. Project Divisions.

These divisions are constituted exclusively for the execution of new projects of drinking water and sewerage schemes.

iii Quality Control Divisions.

The Quality Control Divisions under State Referral Institute are engaged in water quality surveillance / monitoring and act as a referral agency to guide

the public as well as the Government in all cases of drinking water quality problems.

3.3.11. Stock Verification Unit

There are two Stock Verification Sub Divisions functioning under Accounts Member for the physical verification of materials stored in different stores. The Sub Division situated in Trivandrum has jurisdiction upto Ernakulam and the second one situated in Kozhikode verifies the stores beyond Ernakulam.

3.3.12. JICCA Assisted Kerala Water Supply Project

The JICCA Assisted Kerala Water Supply Project headed by a Chief Engineer is for implementation of five major water supply schemes assisted by Japan International Co-operation Agency. Its function is to augment and rehabilitate water supply systems of two urban regions viz. Thiruvananthapuram and Kozhikode and to construct water supply systems for three rural regions viz. Meenad, Cherthala and Pattuvam

CHAPTER- IV SCHEMES UNDER EXECUTION

Sewerage

The coverage of sewerage in the state is negligible. Thiruvananthapuram city has 37% coverage with about 90,000 connections. Ernakulam has a small system with 1000 connections. Two projects for Kollam and Kozhikkode under KSUDP are in progress.

Waste water collection and disposal are of equal importance to that of protected water supply in maintaining public health and much attention is needed in this sector.

Jawaharlal Nehru National Urban Renewal Mission (JNNURM) Projects

Government had accorded Administrative Sanction for four projects for Rs.699.70 crores, one each in water supply and sewerage sector for Thiruvananthapuram and Kochi Corporations of Kerala under JNNURM. In order to execute the projects a Tri-partite agreement between the respective Corporation, Department of LSGD and Kerala Water Authority (KWA) was signed on 01/11/07. The implementation of the scheme is done by KWA on behalf of the respective Urban Local Bodies (ULB), for which the funds will be released to ULBs according to requirement. A city level Technical Advisory Group was formed for both Corporations.

Sl.No.	Name of City and Scheme	AS in Crores of Rupees	Project Components
Thiruvananthapuram (Capital City)			
Funding: Central: 80%; State: 10%; ULB: 10%			
1	JNNURM-Water Supply Scheme to Trivandrum	87.16	Distribution Lines, Rehabilitation of distribution system
2	JNNURM-Sewerage Scheme to Trivandrum	215.41	Sewage treatment plant, pump house and sewer mains
3	Rehabilitation of Sewerage system Phase II	121.15	Rehabilitation of main pumping stations, extension of pumping main, replacement of pump set,

			providing 4 MLD STP at Govt. Medical College.
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Kochi (City with One million plus population)

Funding: Central: 50%; State: 30%; ULB: 20%

1	JNNURM – Water Supply Scheme to Kochi (Part-I)	201.17	Intake well, WTP, Sump, Tank, Transmission mains
2	JNNURM – Sewerage-Scheme to Kochi city – Central Zone (Part-I)	74.81	Sewage Treatment Plant, Pump house and sewer mains

The various packages of the above works are in progress.

Guruvayur Sewerage Scheme

The project is to provide an effective drainage system for the full coverage of the thick inhabitant areas under Guruvayur Municipality. The main objective of the project is to improve the environmental conditions now prevailing in the area. The general hygiene in the area would keep up, improving health. Implementation of the project will promote the sanitary and health status of the inhabitants in the project areas preventing incidence of waterborne diseases.

Dry and wet contaminants including sewage from hotels, houses and commercial complexes at Guruvayur area collected and conveying through various size of PVC sewer lines to sewage treatment plant at Chakkumkandam and sewage treated as manure. This scheme includes the following components.

1. 3 MLD Sewage Treatment Plant.
2. Laying of PVC Sewer Lines and Manholes.
3. Repairs and maintenance of collection well.
4. Supply, erection and commissioning of pump sets.
5. Power line extensions to pumping stations.
6. Supply and installation of Diesel Generator.
7. Procurement of various types of Sewer Clearing Equipment.
8. Interconnection of pumping station, pumping main and sewer lines.
9. Computerized monitoring of sewer network

The work is in the final stages and about 85% of the work has been completed.

Trivandrum Sewerage Scheme

The **Trivandrum** Sewerage Scheme was formulated during the year 1931 based on the principle of separate system, dividing the area into different blocks topographically for effective drainage of wastewater. The scheme area was divided into seven blocks viz. A, B, C, D, E, F and G, facilitating efficiency of Sewerage system by laying Main sewers, collecting sewers, branch sewers, etc., in combination with pumping stations and pumping mains up to the disposal point. The first block 'Block-A' was commissioned in 1945. Later, Block B was commissioned in 1965 and Block C in 1970. Block D and E were partially commissioned in 1994 and 1990 respectively. Sewage farming was the treatment method adopted that time, located at Muttathara. Thiruvananthapuram Sewerage Scheme [TSS] covers partially the old Corporation area, having an extent of 74.93 sqkm with 50 wards. Presently Sewerage facility is available fully or partially in blocks A to E.

Sewage Treatment Plant

During the year 2013, a Sewage Treatment Plant was commissioned with a total capacity of 107 MLD. Sewage from 10 pumping stations located in the various blocks are fed to the STP. Presently the plant is utilized for the commissioned areas of blocks A to E.

Present works

Presently works are taken up under Amruth and State Plan for extending the sewerage facility to the non-covered areas and also for rehabilitation of existing schemes.

SCHEMES UNDER EXECUTION

List of completed / Commissioned Schemes (2017-18)

Sl. No.	Name of Scheme	Category	AS amount	District
1	Comprehensive Water Supply scheme to Kilimanoor,Pazhayakunnumel and Madavoor panchayaths.	State Plan	3100.00	TVPM
2	Water Harvesting for the sustainability of Vandichira pond- Renovation of RWSS to Parassala	NRDWP	244.00	TVPM
3	19th SLSSC scheme-Sustainability of Water sources- Renovation of Anatazhchira in Andoorkonam Grama panchayath.- Phase II	NRDWP	441.00	TVPM
4	WSS to Karalam panchayat in Mukundapuram Taluk of Thrissur District .	NRDWP	1050.00	Thrissur
5	XX th SLSSC 2014-Augmentation of WSS to Nellaya and Kulukkallur panchayath. Extension of distribution line to Zone I & II	NRDWP	900.00	Palakkad
6	ARWSS to Ettumanoor and adjoining 9 Villages Phase I&II	NRDWP	4872.43	Kottayam
7	WSS to Erumeli panchayath	STATE PLAN	5300.00	Kottayam
8	NRDWP - providing water supply arrangements to hilly areas of Kumily GramaPanchayath	NRDWP	900.00	Idukki
9	UIDSSMT-WSS to Ambalppuzha	NRDWP	5959.00	Alappuzha
10	NRDWP- WSS to Nooranad Chunakkara – Ph 1	NRDWP	720.00	Alappuzha
11	NRDWP- WSS to Nooranad Chunakkara – Ph 2	NRDWP	425.00	Alappuzha
12	NRDWP-WSS to Madayi	NRDWP	586.00	Kannur
13	WSS to Thrikkovilvattom & Nedumpana Panchayaths (Part) Phase I	NRDWP	1000.00	Kollam
14	RWSS to Pattazhy and Pattazhy Vadakkekkara	NRDWP	1340.00	Kollam
15	WSS to Mylom -Thalavoor-Pidavoor	NRDWP	2005.00	Kollam
16	CWSS to Panavoor-Pullampara-Balance Distribution	NABARD	571.00	TVPM
		Total	29413.43	

**DISTRICT WISE AND CATOGORY WISE NUMBER OF WATER SUPPLY SCHEMES IN OPERATIONS
AS ON 31-03-2018**

Sl No	Name of District	No. of Urban Water Supply Scheme	Rural Water Supply Schemes		Total
			Multi Panchayath	Single panchayath	
1	Thiruvananthapuram	11	30	54	95
2	Kollam	4	9	59	72
3	Pathanamthitta	4	10	56	70
4	Alappuzha	6	5	31	42
5	Kottayam	3	7	40	50
6	Idukki	6	5	82	93
7	Ernakulam	13	20	69	102
8	Thrissur	11	26	85	122
9	Palakkad	6	19	45	70
10	Malappuram	10	16	30	56
11	Kozhikode	17	4	56	77
12	Wayanad	1	6	19	26
13	Kannur	6	2	82	90
14	Kasaragod	1	8	71	80
	Total	99	167	779	1045

DISTRICT WISE POPULATION COVERED BY WATER SUPPLY SCHEMES AS ON 31-03-2018

Sl No	Name of District	Rural Population Covered	% of Total Rural Population	Urban Population Covered	% of Total Urban Population	Total Population Covered	% of Total Population
1	Thiruvananthapuram	1051668	68.00	1376620	76.00	2458312	73.00
2	Kollam	1269456	59.30	427696	81.33	1697152	63.64
3	Pathanamthitta	554460	51.07	128489	79.07	682949	55.22
4	Alappuzha	1231000	69.00	324500	77.00	1555500	70.00
5	Kottayam	803583	73.00	290929	26.00	1094512	59.00
6	Idukki	332548	31.50	41647	80.00	374195	33.78
7	Ernakulam	1567603	78.66	1704167	93.08	3271770	83.60
8	Thrissur	665944	64.00	1567343	75.00	2233287	77.80
9	Palakkad	1127149	45.87	279318	79.19	1406467	50.05
10	Malappuram	646542	28.16	362085	19.92	1008627	24.52
11	Kozhikode	454682	41.70	735742	74.30	1190420	55.08
12	Wayanad	339546	43.25	59200	51.55	398746	48.78
13	Kannur	571355	31.50	412240	56.42	983595	38.66
14	Kasaragod	165000	14.54	50100	30.00	215100	16.52
	Total	10780536	50.55	7760076	63.29	18570632	56.29

NABARD Ongoing schemes(2017-18)

Sl. N o.	Year of sanction (Tranche No.)	Name Of Division	District	Name of Scheme	AS Amount (Rs. In lakhs)
1	2008 (RIDF XIV)	Project Division, Thiruvananthapuram	Thiruvananthapuram	RDWSS to Pallichal Balaramapuram and Vilavoorkkal Pt. (Partially)	3862.49
2		Project Division, Thiruvananthapuram	Thiruvananthapuram	Augmentation of existing RDWSS to Kunnathukal Pt. (Partially)	1684.71
3		Project Division, Perumbavoor.	Eranakulam	RDWSS to Karukutti & Mukkannur Pt. (Partially)	1931.00
4		Project Division, Nattika	Thrissur	RDWSS to Cheruthuruthy and Nedumpura	814.00
5		Project Division, Kozhikode	Kozhikkode	RDWSS to Nadapuram village	1189.20
6	2011 (RIDF XVII)	Project Division, Nattika	THrissur	WSS to Kattur, Padiyur & Poomangalam village	2789.00
7		Project Division, Kozhikode	Wayanad	WSS in Mananthavady, Edavaka & Nallooradu villages	2368
8	2013 (RIDF XVIII)	Project Division, Thiruvananthapuram	Thiruvananthapuram	RWSS to Kalliyur, Vengannur villages, Vizhinjam, Kovalam Tourist Area - Rural component Phase - I	2223.00
9		Project Division, Kollam	Kollam	WSS to Vilakkudy, Vettikkavala & Melila panchayath in Kollam Dist. Phase-I	2415.00
10		Project Division, Kottayam	Kottayam	CWSS to Manjoor & Kanakkary grama panchayats in Kottayam Dist.	2622.00

11		Project Division, Malappuram	Malappuram	WSS to Othukkungal & Ponmala	3440.00
12		Project Division, Kozhikode	Wayanad	WSS to Moopainad, Mappady (Ist Phase) and Vythiri panchayath in Wayanad Dist. (Well, RW, CW Pumping main, Treatment Plant, Reservoirs and pumpsets) with pumpsets	3260.00
13		Project Division, Kozhikode	Wayanad	CWSS to Sulthan bathery, Noolpuzha and Muttil panchayath in Wayanad Sist. - Phase I (Well, TP, RW, CW Pumping main, Bal Reservoir, Gravity Main)	4220.00
14		P.H.Division, KASARGODE	Kasaragod	WSS to Chengala, Muliyar, Madhur & Mogralputhur Pts. in Kasargod panchayath Ph-II	2350.00
15	2014 (RIDF XIX)	Project Division, Thiruvananthapuram	Thiruvananthapuram	CWSS to Panavoor, Pullampara & Vembayam Pts. – distribution network	571.00
16		Project Division, Adoor	Pathanamthitta	WSS to Seethathode Pt. & Nilakkal Plappally area in Perunad Pt.	909.00
17		Project Division, Adoor	Pathanamthitta	CRWSS to Mallappally, Anicadu & Kottangal (P) Pts. – Phase I	798.00
18		UIDSSMT, Alappuzha	Alappuzha	Cherthala – Distribution network	6055.40
19		Project Division, Kattappana	Idukki	WSS to Edavetty Panchayath	1700.00

20		Project Division, Nattika	Eranakulam	Coverage of NC/PC habitation – Providing WS to uncovered habitations in Parakadavu Pt.	610.00
21		Project Division, Nattika	Thrissur	Combined AUWSS to Pudukkad CT and ARWSS to Parappukara and adjoining villages – supply,erection and commissioning of micro filter and pumping main/ gravity main	957.00
22		Project Division, Malappuram	Malappuram	WSS to Cheekkode & adj. pts. – Providing balance distribution network	1254.00
23	2015 (RIDF XX)	Project Division, Thiruvananthapuram	Thiruvananthapuram	RWSS to Edakode, Keezhethonnackal, Melethonnackal, Veyiloor, Pallippuram Panchayaths	735
24		Project Division, Thiruvananthapuram	Thiruvananthapuram	RWSS to Kottapani in Edava Grama Panchayat	62.95
25		Project Division, Adoor	Pathanamthitta	WSS for proposed Konni Medical College in Pathanamthitta Dist.	1398.00
26		Project Division, Kottayam	Kottayam	RWSS to Vadakkemala in Parathodu Grama Panchayath-Laying Distribution system	53.00
27		Project Division, Kottayam	Kottayam	RWSS to Vadakkemala in Parathodu Grama Panchayath-Laying of Pumping main, Erection of Pumpset and Power allocation	39.90

28		Project Division, Palakkad	Palakkad	WSS to Koppam and Vilayur Pt. in Pattambi taluk	2000.00
29		Project Division, Palakkad	Palakkad	WSS to Ongallur and Vallappuzha	1500.00
30		P.H.Division, Vadakara	Kozhikkode	RWSS to Kallanode in Koorachundu Panchayath	50
31		Project Division, Kannur	Kannur	RWSS to Payyavur and Eruvessi Pt. in Thaliparamba taluk Phase – I	3500
32	2016 (RIDF XXII)	Project Division, Thiruvananthapura m	Thiruvananthapuram	CWSS to Pallichal, Balaramapuram and Vilavoorkal Pts. - Balance works	1024.00
33		Project Division, Kattappana	Idukki	WSS to Valliyamattom and Alakkode villages	558.63
34		Project Division, Kattappana	Idukki	WSS to Karimannoor, udumbannoor, Kodukulam and Vannapuram Pts.	1200.00
35		Project Division, Piravom	Eranakulam	RWSS to Arakuzha & Palakuzha Pts.	1350.00
36		Project Division, Piravom	Eranakulam	Mini WSS to Inchathotty in Kuttampuzha Pt.	92.00
37		Water Supply Division, Kannur	Kannur	Mini WSS to Pattuvam & adj. villages - Balance works in Phase I	1495.00
38	2017 (RIDF XXIII)	Project Division, Palakkad	Palakkad	Comprehensive Water Supply Schme (CWSS) to Mannur,Keralasery & Manakara Panchyaths(Phase- I)	2530.00

39		Project Division, Palakkad	Palakkad	Comprehensive Water Supply Schme (CWSS) to Agali & adjoining Panchayaths in Mannar Taluk.	2500.00
40		Project Division Kannur	Kannur	WSS to Kottiyoor,Kelakam and Kanichar in Iritty Taluk.(Phase- 1).	3525.00
				TOTAL	71636.28

State Plan - Ongoing Works in the year 2017-18 (above 1 Cr)

Sl. No.	District	Division	Name of work	AS Amount in Lakhs
1	Trivandrum	TVPM (S)	Renovation of Guest House, Thiruvananthapuram	100.00
2	Trivandrum	HW Division, Aruvikkara	Modernisation of Aruvikkara Pumping Station	1000.00
3	Trivandrum	W.S.Division, Attingal	CWSS to Varkala municipality and adjoining villages - Supplying and laying 350mm DI K9 pumping main from Thettikulam booster pump house to Chemmaruthy and Ottur tanks and supply and erection of pumpset at Thettikulam pump house (3200m) Pump - 120HP CF - 2 nos.	296.15
4	Trivandrum	Project Division, TVPM	Augmentation of Water Supply Scheme to Kunnathukal Panchayath - Phase - II - Design, Construction and Commissioning of 9.15 LL capacity OHSR at Kottukonam , Supplying and Laying of 400 mm DI K9 pipe for Inter connection with existing Distribution lines at Kottukonam	380.00
5	Trivandrum	Project Division, TVPM	CWSS to Kalliyoor, Venganoor Panchayaths in Thiruvananthapuram District-Phase III	1466.00
6	Kollam	Kollam	RWSS to Perinad Replacement from OHSR Nanthirikkal to elampallor and OHSR Nanthirikkal to Vellimon mukku & from starch to kaithakodi 140/90mm PVC with 200mm DIK9/160/110/90mm PVC - 5800m	107.90
7	Kollam	Kottarakkara	WSS to Chithara and adj.pts. - Replacement of old pumpsets in Mylamoodu Pump House (with 3 nos. 135 HP VT, 2 nos at a time and one standby)	170.00

8	Kollam	Kottarakkara	BAWSS to Kundara and adjoining panchayaths - Replacement of frequent leaking 500mm CI TM	396.00
9	Kottayam	Kaduthuruthy	Construction of sump cum office building at kaduthuruthy- Phase I	105.00
10	Kottayam	Kottayam	ARWSS to Lalam - Vallichira - Laying 200mm DI pumping main from Kadappattoor (New well cum pumphouse) to Nelliyan GL tank	218.00
11	Kottayam	Kottayam	ARWSS to Ettumanoor & adjoining villages - Replacing frequently bursting 250mm PVC conveyance main from OH tank at Medical College to OH tank at Villunni using 250mm DI K9 pipe - 4000m	200.00
12	Kottayam	Project Division, Kottayam	WSS to Manarcadu panchayath (Aug)	108.00
13	Alappuzha	Project Division, Alappuzha	Jica Assisted Kerala Water Supply project to cherthala Municipality and adjoining villages - Replacing of existing GRP Raw water transmission line with MS pipe at maravanthuruth panchayath	2,175.00
14	Alappuzha	Project Division, Alappuzha	CRWSS to Kurattissery, Mannar, Chennithala and Thripperunthura village - Providing additional distribution to uncovered areas 110mm PVC 6kg/cm ² (2000m), 90mm PVC 6kg/cm ² (2500m), 75mm PVC 6kg/cm ² (15000m)	105.00
15	Alappuzha	Project Division, Alappuzha	CWSS to Harippad and adjoining ten panchayaths- Phase II	3500.00
16	Alappuzha	Project Division, Alappuzha	SAGY: WS Augmentation of RWSS in Aryad Panchayath	499.00
17	Pathanamthitta	Pathanamthitta	Providing safe drinking water at Sabarimala - Installation of RO plants	345.50
18	Pathanamthitta	Pathanamthitta	WSS to Adoor and adj. Panchayaths- Relaying raw water pumping main with 400mm DI K9 pipe from Kaipattoor to Chiranickal treatment plant (4700m)	403.00
19	Pathanamthitta	Project Division, Adoor	CWSS to Ayroor-Kanjettukara in Pathanamthitta- Phase II	2800.00
20	Pathanamthitta	Thiruvalla	Improvements to the existing scheme - Providing 160mm PVC line at various places along Ambalappuzha - Thiruvalla main road between Kochammanam Junction to Kalathilpalam (160mm PVC 6kg/cm ² - 10400m, 150mm GI pipe - 530m)	280.60

21	Pathanamthitta	Thiruvalla	UWSS to Thiruvalla - Replacing old distribution pipeline in Thiruvalla town (laying 300mm/450mm/500mm DI) along MC road from Ramanchira to Mazhuvangaduchira 80mm/100mm AC with 160mm PVC - 2400m 250mm AC with 300mm DI - 500m 400mm Premo with 450mm DI - 210m	169.73
22	pathanamthitta	Thiruvalla	RWSS to Vazhappally- Augmentation of water supply to Thuruthy	360.00
23	Idukki	Project Division, Kattappana	Extension of water supply to hilly areas of Kumily gramapanchayath for additional coverage	800.00
24	Ernakulam	Muvattupuzha	RWSS to Nellikkuzhy-Replacing damaged pumping main 250 mm AC with 250 mm DI from Thrikkariyoor to Nellikkuzhi OH tank	175.00
25	Ernakulam	W.S. Division,Kochi	Water supply scheme to Marad municipality - Strengthening distribution system	2316.00
26	Ernakulam	Aluva	UWSS to Aluva - Replacement old damaged 500/400mm premo Pipe with 500mm DI K9 from pump junction to bye pass and 100mm AC pipe with 160mm PVC pipe Premo - 1.46km AC - 4.00km	575.00
27	Thrissur	Irinjalakkuda	CWSS to KPCTA - Replacing the damaged 250 mm AC pumping main with 350 mm DI K9 pipes from Illickal pump house to Chazhur plant	390
28	Thrissur	Project Division, Nattika	Completion of Ongoing UWSS special package UWSS to Ollur - Edakkunni census Town Villages in Thrissur Corporation	1150.00
29	Thrissur	Project Division, Nattika	Water Supply Scheme to Pavartty Mullassery Panchayaths - Supplying,laying,testing and commissioning 300mm/250mm/ 200mmm DI K9 gravity main from Chattukulam to Pavartty and Mullassery OHSR - Package-I.	561.76
30	Thrissur	Thrissur	CWSS to Wadakkanchery and adj Pt. -Replacing and old damaged 250mm AC Gravity main and 150mm AC distribution line by DI and PVC pipes	500.00

31	Thrissur	Thrissur	RWSS to Adat Pt - Replacing existing Gravity main from Chaithannya Junction at Sankaraya Road to Puzhakal Sump	194.00
32	palakkad	Palakkad	Puthussery Water Supply Scheme- Shifting of pumping main passing through railway coach factory palakkad -350 mm DI K9 - 2000m	200.00
33	palakkad	Palakkad	Puthussery Water Supply Scheme- Shifting of Distribution main passing through railway coach factory palakkad -160 mmPVC - 3000m	100.00
34	Palakkad	Project Division, Palakkad	XX th SLSSC 2014- C WSS to Vandazhy,Kizhakkenchery, Vadakkenchery and Kanambra panchayath Water quality affected habittation-Phase I-Part-I	1795
35	Palakkad	Project Division, Palakkad	XXI th SLSSC 2016 - CWSS to Elappully , Nalleppully , Perumatty and Pattenchery panchayath. Phase-I	1166
36	Palakkad	Project Division, Palakkad	XXI th SLSSC 2016 - CWSS to Perungottukurissi , Kuthannur . Phase II	600
37	Palakkad	Project Division, Palakkad	CWSS to Chittoor – Thathamangalam Municipality and Vadavathoor Panchayath in Palakkad district (Green Book)	1500.00
38	Palakkad	Shornur	CWSS to Anakkara & Pattithara - Replacing old and damaged 100/80mm AC with 110mm PVC from Kokkad to Othallur (20000m)	300.00
39	Palakkad	Shornur	CWSS to Mannarkkad and Thenkara Grama Panchayaths in Mannarkkad Taluk	240.00

40	Palakkad	Shornur	RWSS to Anakara - Replacement old and damaged 100mm AC distribution pipes with 110mm PVC class 3 pipes and 150mm AC distribution line at various tail end locations, Thanikkunnu GLSR and Malamakkavu by 160mm PVC class3 (10390m)	109.00
41	Palakkad	Shornur	ARWSS to Pottassery I & II Villages in Mannarkad Taluk- Replacing existing old and damaged pipe lines (Distribution system)	315.00
42	Malappuram	Malappuram	RWSS to Kalikavu – Replacement of old pipe Reach I - Replacing 400mm AC CI10 with 300mm DI K9 pipe for a length of 1700m from Mathumala to Krishibhavan - Kalikavu	125.00
43	Malappuram	Malappuram	Improvements to RWSS to Manjeri - Water Supply to Veetikunnu Ward No. 28,29,30,31 and 32 of Manjeri Municipality	280.00
44	Malappuram	Malappuram	2015-16-UWSS to Perinthalmanna Municipality - Replacing damaged AC pipe With DI pipes in Zone II & III (4465 M)	280.00
45	Malappuram	Malappuram	2015-16-CRWSS to Tirurangadi / Parappanangadi / Vallikkunnu-Replacing of existing 110 mm AC class 10 for a length of 400 m with 110 mm PVC 6kg/cm ² along Parappanangadi-putharikkal road	180.00
46	Kozhikode	Vatakara	JICA assisted Kerala water supply project Kozhikode - Balusseri Future phase - Booster zone area - ward 2,16 & 17 110mm PVC 6kg - 11.60km	300.00
47	Kozhikode	Vatakara	WSS to Onchiam, Chorode etc. Villages- Replacing 250mm AC clear water pumping main from Vellikulangara sump to Edakkandikkunnu GLSR with 500mm DI K9 pipe	280.00
48	Kozhikode	Project Division, Kozhikode	WSS to Ambalavayal by laying distribution line from ARWSS to Krishnagiri, Purakkady and Ambalavayal villages	500.00

49	Kannur	W.S. Division, Kannur	WSS to Anjarakandy, Peralassery and adjoining panchayaths - Replacement of old distribution pipe system of Chembilode village in Chembilode Pt.(26565m)	242.00
50	Kannur	W.S.Division, Thaliparamba	Water supply scheme to Pattuvam and adjoining villages	5250.00
51	Kasargod	Kasargod	ARWSS to Vorkady and adjoining villages - Extension of pipe line using 160mm to 110mm PVC (12.5 / 10 / 6 kg/cm2) from Guvedapadavu to Morathana (rider main) (12000m)	100.00
			Total	35708.64

State Plan - Completed Works in the year 2017-18 (Above 1 Cr)

Sl. No.	District	Division	Name of work	AS Amount in Lakhs
1	Pathanamthitta	Thiruvalla	RWSS to Kaviyoor Kunamthanam - Replacing 250mm AC gravity main with 250mm DI K9 pipe from Thiruvalla TP to Anjilithanam 1st reach	150
2	TVPM	Project Division, TVPM	Laying of exclusive line for Medical College, Thiruvananthapuram from Kumarapuram	190.00
3	Pathanamthitta	Thiruvalla	Replacement of old and damaged 150mm AC pipeline with newly laid 150mm PVC pipeline from Manipuzha Jn. to Neerettupuram Jn., Nedumpuram Pt.	140.2
4	Ernakulam	W.S. Division,Kochi	RWSS to Puthencruz - Replacing 200mm AC pipe with 200mm DI from Rajarshi Jn. To Karimugal and to Ambalamedu	251.00
5	Ernakulam	W.S. Division,Kochi	WSS to Puthencruz and adj Panchayaths- Replacing 150mm AC distribution main with 200mm DI K9 pipe from Meempara Jn to Poothrikka having a length of 2000m	142.00
			Total	873.20

**AMRUT- KWA- WATER SUPPLY & SEWERAGE WORKS
WORK COMPLETED DURING 2017-18**

ULB wise No:	SAAP YEAR	NAME OF WORK	AS DATE	AS AMOUNT (in Crores)
KOLLAM				
WATER SUPPLY SECTOR				
1	15-16	Improvement of Kollam WSS Division No. 7 to 11 in Kollam Corporation (Laying 110mm PVC 2500m, 90mm PVC 4500m).	26/3/2016	0.63
2	15-16	Improvement of Kollam WSS Division No. 7 to 11 in Kollam Corporation - Replacement of damaged pumpset.	26/3/2016	0.10
3	15-16	Replacement of 50HP/75HP VT pumpsets at booster pumphouse at Ananathavalleeswaram.	26/3/2016	0.55
4	15-16	Supply,errection and commissioning of Chlorinator system to Tubewell pumphouses in Kollam corporation.	26/3/2016	0.17
5	15-16	Supply,erection and commissioning of Chlorinator system to booster pumphouse at Ananathavalleeswaram with supply of 100Kg Chlorine cylinder.	26/3/2016	0.12
		TOTAL		1.55
THRISSUR				
WATER SUPPLY SECTOR				
1	15-16	Supplying and laying 700mm DI K9 raw water gravity main from dam to aerator of 36 MLD WTP at Peechi.	26/3/2016	1.00
		TOTAL		1.00
		TOTAL - WATER SUPPLY		2.55

**AMRUT- KWA- WATER SUPPLY & SEWERAGE WORKS
WORK IN PROGRESS DURING 2017-18**

ULB wise No:	SAAP YEAR	NAME OF WORK	AS DATE	AS AMOUNT (in Crores)
KOLLAM				
WATER SUPPLY SECTOR				
1	15-16	Replacement of contaminated AC pipe lines in Kollam Corporation - Laying distribution main from Pazhayattukuzhy OHSR to Ammannada Division in Kollam Coporation(250mm DI K9 pipe -2500m).	26-03-16	1.37
2	15-16	Replacement of contaminated AC pipe lines in Kollam Corporation - Laying distribution main from Andamukkam, Thamarakulam, Contonment area from OH tank near Parvathy mill, Chinnakada to Mundakkal beach area from no: 3/4 (250mm DI K9 pipe -3500, 110mm PVC - 2500m, 63mm ASTM pipe - 750m).	26/3/2016	2.73
3	15-16	Improvement of Kollam WSS Division No. 7 to 11 in Kollam Corporation (Laying 110mm PVC 2500m, 90mm PVC 4500m).	26/3/2016	0.63
4	15-16	Improvement of Kollam WSS Division No. 7 to 11 in Kollam Corporation - Replacement of damaged pumpset.	26/3/2016	0.10
5	15-16	Replacement of 50HP/75HP VT pumpsets at booster pumphouse at Ananathavalleeswaram.	26/3/2016	0.55
6	15-16	Supply,errection and commissioning of Chlorinator system to Tubewell pumphouses in Kollam corporation.	26/3/2016	0.17
7	15-16	Supply,erection and commissioning of Chlorinator system to booster pumphouse at Ananathavalleeswaram with supply of 100Kg Chlorine cylinder.	26/3/2016	0.12
TOTAL				5.66
KOCHI				
WATER SUPPLY SECTOR				
1	15-16	Replacement of existing 525mm distribution cum pumping main with 600mm rider pumping main from Karuvelippady to Koovappadam in Kochi Corporation.	23/2/2017	3.65
2	15-16	Construction of 15L Ltrs. capacity GL tank at Karuvelippady in Kochi Corporation.	23/2/2017	3.20
3	16-17	Replacement of old 250mm CI pipe by 300mm DI K9 pipe along Konthuruthi road of Kochi Corporation.	01-01-18	0.82
4	16-17	Replacement of 100mm AC pipe by laying rider line of 160mm PVC CL 5 along both side at Pandit Karupan road of Kochi corporation.	15/08/2017	1.61
5	16-17	Replacement of 100mm CI pipe by laying 160mm and 110mm PVC pipes from Valanjambalam to Ravipuram in Kochi corporation 2016-17.	15/08/2017	0.66
6	16-17	Laying of 450mm DI K9 pipe from north end of Aroor Edakochi bridge to KWA water tank site at Edakochi, Kochi corporation 2016-17.	15/08/2017	1.52

8	16-17	Laying rider main from Kathrikadavu to Elamkulam, Chettichira, Ponnuranni areas and distribution lines in Chakkaraparambu, Chalikkavattom areas 2016-17	1/1/2018	3.25
		TOTAL		14.71
THRISSUR				
WATER SUPPLY SECTOR				
1	15-16	Survey and Replacing of Faulty water meters and fixing new water meters at various service connections in Thrissur Corporation area.	26/3/2016	3.00
2	15-16	Supply and installation of bulk flow water meters in transmission main and distribution system.	26/3/2016	1.00
3	15-16	Supplying and laying 700mm DI K9 raw water gravity main from dam to aerator of 36 MLD WTP at Peechi.	26/3/2016	1.00
5	15-16	Renovation of existing damaged pump houses in Thrissur Corporation.	23/2/2017	0.55
6	15-16	Rehabilitation of Thrissur Corporation WSS to Koorkancherry Zone - Supply and laying seperate branched gravity main of 400mm DI K9 and replacement of 700mm PREMO with 700mm DI K9 pipe, and supply erection and commissioning of 65HP centrifugal motor pumpset for replacing of existing old pumpsets - 2nos at Koorkancherry sump allied works.	23/2/2017	3.41
7	15-16	Completion of ongoing schemes - UWSS to Ollur and Edakkunni census town villages in Thrissur Corporation - Constriuction of 20L Ltrs capacity OHSR at Ollur and supplying , laying distribution lines and construction of retaining wall at WTP Arattupuzha.	23/2/2017	11.40
15	17-18	Construction of 10LL OHSR at Anappara with pumping system and pumping main from Cherur to Anappara-Improvements of water supply system in Dn. 6, 7 and 8 of Thrissur Corporation- Part -1	02-11-17	8.00
		TOTAL		28.36
GURUVAYUR				
WATER SUPPLY SECTOR				
1	15-16	Improvements of coverage in Guruvayur Municipality - Laying distribution network for improvement of coverage in Guruvayur town area & Pookode zone.	28/9/2017	13.72
		TOTAL		13.72
PALAKKAD				
WATER SUPPLY SECTOR				
1	15-16	Providing new pumping main 600mm DI-K9 - 3400m from Puthur Jn. to Moothanthara OHSR (Part-1)	23/2/2017	5.44
2	15-16	Providing new pumping main 450mm DI-K9 - 4650m from Mattumantha to Kalmandapam.	23/2/2017	4.56
		TOTAL		10.00
KOZHIKODE				
WATER SUPPLY SECTOR				
1	15-16	Rehabilitation of old pipes, valves, interconnections with existing lines and providing water meters	23-02-17	17.87
		TOTAL		17.87

KANNUR				
WATER SUPPLY SECTOR				
1	15-16	Laying Gravity Main from JICA project at Mangattuparamba to Pallikkunnu OHSR for Pallikkunnu & Puzhathi Villages.	23/2/2017	23.50
2	15-16	Construction of 24LL OHSR at Pallikkunnu for Pallikkunnu & Puzhathi Villages.	23/2/2017	4.05
3	15-16	Construction of 14LL capacity OHSR Thottada at Edakkad zone III in Kannur Corporation.	15/08/2017	3.00
4	15-16	Rehabilitation of old distribution networks, valves, house service connections and inter-connections in Kannur Corporation SAAP 2015-16	28/9/2017	16.90
5	16-17	Rehabilitation of existing old distribution network, valves, house service connection and inter-connections with existing lines and providing flow meters etc., including road reformation charges-Phase II at Pallikkunnu.	28/9/2017	15.00
6	16-17	Laying of gravity main from water supply system to Kannur at Melechowda to sump at Avera to OHSR at Thottada including erection of pumpsets at Avera in Kannur Corporation 2016-17	15/08/2017	6.80
		TOTAL		69.25
		TOTAL - WATER SUPPLY		159.57
		SEWERAGE SECTOR		
TRIVANDRUM				
SEWERAGE SECTOR				
1	15-16	Laying 900mm dia DI pumping main at Muttathara Sewage Treatment Plant.	26/03/2016	3.72
2	15-16	Rehabilitation of existing pump and machineries-Kannammoola pump		
		TOTAL		3.72
		TOTAL - SEWERAGE		3.72
		GRAND TOTAL		163.29

**AMRUT- KWA- WATER SUPPLY & SEWERAGE WORKS
A.S DURING 2017-18**

WATER SUPPLY SECTOR

ULB wise No:	SAAP YEAR	NAME OF WORK	AS DATE	AS AMOUNT (in Crores)
TRIVANDRUM				
1	16-17	Construction of smart office in Thiruvananthapuram - Kowdiar, Pongmoodu, Vellayambalam 2016-17	15/08/2017	1.75
2	16-17	Supplying and Installation of smart meters	27/9/2017	2.29
3	17-18	Installation of Flow meters	01-01-18	7.50

4	17-18	Replacement of the existing damaged pipe lines & Alteration of house connections of Thiruvananthapuram water supply scheme	13-11-17	15.00
5	17-18	Replacement of old and damaged pipelines of Trivandrum water supply scheme & alteration of house connections - Phase II	22-02-18	2.50
		TOTAL		29.04
KOLLAM				
1	15-16, 16-17, 17-18	Augumentation of water supply scheme Kollam Corporation	28/09/2017 & 21st SHPSC held on 27/02/2019	80.71
2	16-17	Providing new water connection in Kollam Corporation 2016-17.	15/08/2017	7.00
3	17-18	Providing new water connection in Kollam Corporation 2017-18.	13/11/2017	7.90
		TOTAL		95.61
ALAPPUZHA				
1	16-17	Water Supply Sector- Augmentation & Modernization of Water Supply Distribution System in Alappuzha Municipality (Phase-II)	02-11-17	56.87
2	17-18	Augmentation and modernization of water supply distribution system in Alappuzha Municipality (Phase-3)	02-11-17	58.13
		TOTAL		115.00
KOCHI				
1	16-17	Replacement of old 250mm CI pipe by 300mm DI K9 pipe along Konthuruthi road of Kochi Corporation.	01-01-18	0.82
2	16-17	Replacement of 100mm AC pipe by laying rider line of 160mm PVC CL 5 along both side at Pandit Karupan road of Kochi corporation.	15/08/2017	1.61
3	16-17	Replacement of 100mm CI pipe by laying 160mm and 110mm PVC pipes from Valanjambalam to Ravipuram in Kochi corporation 2016-17.	15/08/2017	0.66
4	16-17	Laying of 450mm DI K9 pipe from north end of Aroor Edakochi bridge to KWA water tank site at Edakochi, Kochi corporation 2016-17.	15/08/2017	1.52
5	16-17	Laying pumping main of 500mm DI pipe from JnNURM WTP at Maradu to Pumphouse at Thammanam for additional pumping of water (upto 18 MLD) to Kochi city in Kochi Corporation 2016-17.	28/9/2017	16.50
6	16-17	Laying rider main form Kathrikadavu to Elamkulam, Chettichira, Ponnurunni areas and distribution lines in Chakkaraparambu, Chalikkavattom areas 2016-17	1/1/2018	3.25
7	16-17	Construction of 17LL OHSR and CWR at Pachalam.	27/9/2017	7.75
8	16-17	Construction of 15LL OHSR and 2LL CWR at Vadathode, Cheranalloor.	27/9/2017	7.75
9	16-17	Construction of 10L Ltrs capacity OHSR at Thevara.	27/9/2017	5.60
10	16-17	Water supply sector - Kochi Corporation - Laying 500mm DI line from pumphouse at Thammanam to OHSR at Kadavanthara.	02-11-17	7.65
11	16-17	Laying of 500mm transmission line from Karthikadavu to proposed Pachalam CWR	02-11-17	10.70
12	17-18	Construction of 13 LL Capacity OHSR at Edakochi	02-11-17	6.00

13	17-18	Construction of 25 LL OHSR at Karuvelppady	02-11-17	11.65
14	17-18	Construction Of 40 LL Capacity OHSR at Kaloor	02-11-17	15.00
15	17-18	Laying 400 rnm DI K9 pipeline from Perumanoor to Ravipuram for a length of 1270m	2/11/2017	4.40
16	17-18	Replacement of 5000 damaged Service water connections	02-11-17	5.00
		TOTAL		105.86
THRISSUR				
1	15-16	Design, construction and commissioning of 3 MLD WTP, reservoir and pumping main for Ollukkara zone	22/2/2018	6.00
2	16-17, 17-18	Construction of new treatment plant of 20MLD WTP at Peechi	28/9/2017	17.30
3	16-17	Replacement of very old 80/100/125/200/300 AC pipes with 160PVC and 200/300/mm DI pipes at various places in Thrissur corporation	02-11-17	12.95
4	16-17	Zoning and mapping of water supply system of Thrissur Corporation- Supply and Laying of various dia pipes-Part-1	01-01-18	8.00
5	17-18	Zoning and mapping of water supply system of Thrissur Corporation- Supply and Laying of various dia pipes-Part-2	01-01-18	17.00
6	17-18	Laying of distribution lines from existing OHT at Kizhakumpattukara to Nellikunnu area for around 15 km with varying dia pipelines-(Dia 200 mm DI to 110 mm PVC	13/11/2017	6.00
7	17-18	Providing Dedicated Feeder from 33KV Pattikkad Sub station to Pumping Water Treatment Plant.	02-11-17	3.00
8	17-18	Construction of 10LL OHSR at Anappara with pumping system and pumping main from Cherur to Anappara-Improvements of water supply system in Dn. 6, 7 and 8 of Thrissur Corporation- Part -1	02-11-17	8.00
9	17-18	Supplying and laying distribution lines for Anappara Villadom area improvement of water Supply System in Dn.6,7 and 8 of Thrissur corporation- Part 2	02-11-17	5.80
10	17-18	Construction of 5LL OHSR at Kuttanallur with gravity main and distribution network	02-11-17	8.00
11	17-18	Floating intake structure at Peechi Reservoir	01-01-18	5.00
		TOTAL		97.05
GURUVAYUR				
1	15-16	Improvements of coverage in Guruvayur Municipality - Laying distribution network for improvement of coverage in Guruvayur town area & Pookode zone.	28/9/2017	13.72
2	16-17	Construction of 10 LL OHSR and pumping main to Guruvayur, and balance distribution network to the Municipality.	28/9/2017	15.50
3	16-17, 17-18	Improvement of water supply system for Guruvayur (Package II)	28-09-17	77.18
4	16-17	Laying distribution networks in Thykkad zone - Guruvayur Municipality	22/2/2018	10.00
5	17-18	Construction of 10LL OHSR and Pumping Main to Guruvayur including distribution network(continuation project), Location: OHSR at Pookkode, pumping main and distribution at Municipal area.	23/12/2017	19.68
		TOTAL		136.08

PALAKKAD				
1	16-17	600mm DI K9 New pumping main - From Malampuzha WTP to Mattumantha DI- K9 pipe 600 mm – 2850 m.	15/08/2017	6.25
2	16-17	Supply and erection of electromagnetic flow meter.	15/08/2017	0.50
3	16-17	Construction of 16L Ltrs OHSR at Kalmandapam KWA and demolishing the existing OHSR.	15/08/2017	3.00
4	16-17	Construction of 45 MLD water treatment plant at Malampuzha, KWA compound and booster station.	28/09/2017	22.25
5	17-18	Replacement of raw water and clear water pump set, transformers and electrification	23/12/2017	13.00
6	17-18	Constuction of OHSR 2 Nos , total 76.5LL capacity		
7	17-18	Augmentation of Water Supply Scheme to Palakkad Mauncipality - Part III- Package II - Providing Rider main, changing of water connections and replacement of existing AC Pipelines to DI/PVC pipelines in Palakkad Muncipality.		54.33
		TOTAL		99.33
KOZHIKODE				
1	16-17	Rehabilitation of existing old pipes, valves and interconnection with the existing lines (Phase II)	02-11-17	14.63
2	16-17	Strengthening of existing infrastructure facilities, and quality improvement of CWSS in Kozhikode Corporation	02-11-17	17.27
3	17-18	Integrated Calicut Water Supply Project - phase 2 -Laying of distribution Lines in 10 zones	01-01-18	46.55
		TOTAL		78.45
KANNUR				
1	15-16	Construction of 14LL capacity OHSR Thottada at Edakkad zone III in Kannur Corporation.	15/08/2017	3.00
2	15-16	Rehabilitation of old distribution networks, valves, house service connections and inter-connections in Kannur Corporation SAAP 2015-16	28/9/2017	16.90
3	16-17	Rehabilitation of existing old distribution network, valves, house service connection and inter-connections with existing lines and providing flow meters etc., including road reformation charges-Phase II at Pallikkunnu.	28/9/2017	15.00
4	16-17	Laying of gravity main from water supply system to Kannur at Melechowra to sump at Avera to OHSR at Thottada including erection of pumpsets at Avera in Kannur Corporation 2016-17	15/08/2017	6.80
5	16-17	Enhancing capacity of treatment plant from 30 MLD to 40 MLD including modernisation of existing treatment plant.	02-11-17	7.80
6	17-18	Supplying and Laying new distribution lines in Pallikkunnu and Puzhathi area providing new service connection and inter connection with existing lines.	02-11-17	3.77
7	17-18	Laying new distribution line and providing new service connection at Elayavoor zone	23/12/2017	8.00
8	17-18	Laying new distribution line 385km and providing new service connection at Edakkad zone	23/12/2017	5.70

9	17-18	Rehabilitation of existing old distribution network, valves, house service connection and inter-connections with existing lines and providing flow meters etc., including road reformation charges (PWD/ NH/ Corporation)at Elayavoor zone	23/12/2017	11.35
10	17-18	Rehabilitation of existing old distribution network, valves, house service connection and inter-connections with existing lines and providing flow meters etc., including road reformation charges (PWD/ NH/ Corporation)at Edakkad zone	23/12/2017	8.60
		TOTAL		86.92
		TOTAL - WATER SUPPLY		843.34

SEWERAGE SECTOR

TRIVANDRUM				
1	16-17	Rehabilitation of existing networks in various blocks of Thiruvananthapuram sewerage scheme	02-11-17	3.84
2	16-17	Providing new network in the missing areas of the core city in Thiruvananthapuram	02-11-17	7.98
3	16-17	Laying transmission main and sewer networks in Block L (Edathara) -Collection and Conveyance system	02-11-17	25.00
4	17-18	Supplying and erection of pumpsets, transformer and electrical accessories in the Block- L, Edathara Pumping Station	30/3/2019	1.80
5	17-18	Construction of Pumping station at Akkulam (Block K)	02-11-17	4.00
6	17-18	Supplying and laying 450mm DI K9 pumping main for a length of 1800m(Block K - Akkulam pumping station on Pulayanarkotta stilling chamber)	02-11-17	2.28
7	17-18	Supplying and laying Transmission main in Block K (Akkulam) to connect stilling chamber at Bypass junction to pumping station at Akkulam collection and conveyance system	02-11-17	7.00
8	17-18	Supplying and erection of pumpsets, transformer and electrical accessories in the Akkulam Pumping Station (Block K)	02-11-17	1.80
9	17-18	Construction of Pumping station at Karimanal (Block J)	02-11-17	4.00
10	17-18	Supplying and laying 350mm DI K9 pumping main (Karimanal pump station to stilling chamber at Bypass junction)(Block J)	02-11-17	1.30
11	17-18	Laying Transmission main and sewer networks in Block J (Karimanal) - Collection & Conveyance system	02-11-17	15.02
12	17-18	Providing Sewer trunk from Kazhakootam area to Pumping station of I Block through the bank of Thettiyyar Thodu - Collection & Conveyance system and pumping station, pumps and electrical installation, Pumping mains (Block I)	02-11-17	9.80

13	17-18	Supplying and erection of pumpsets , transformer and electrical accessories in the Karimanal Pumping Station(Block)	02-11-17	1.50
14	17-18	Providing mechanical Sludge drying unit at Muttathara 107 Mld STP	01-01-18	5.00
15	17-18	Providing new networks (Sewerage facility in the Kalladimugham Housing Colony)	01-01-18	9.47
16	17-18	Providing new network in the missing areas of core city		9.95
17	17-18	Providing sewerage facility to newly constructed residential colony at Karimadom- Part II	22/2/2018	0.35
		TOTAL		110.09
KOLLAM				
1	15-16, 16-17	Sewage Treatment plant - Kureepuzha	22/2/2018	30.00
KOCHI				
1	15-16	Rehabilitation of 5MLD STP plant at Elamkulam	01-01-18	13.70
		TOTAL - SEWERAGE		153.79
		GRAND TOTAL		997.13

KIIFB PROJECTS

Ongoing KIIFB projects during 2017-18

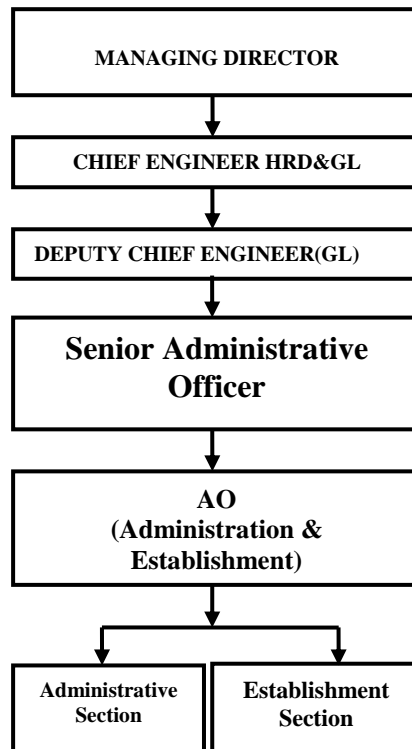
Sl No:	Scheme	KIIFB Approved Amount (Rs. in crore)	Project components
Kollam			
1	Augmentation of Water Supply Scheme to Kollam Corporation Phase –II	235.00	Production components
2	Water Supply Scheme to Kalluvathukkal Parippally and Velinalloor villages - Phase I	27.00	Production components and distribution
Pathanamthitta			
3	Augmentation of 24mld WTP at Kalliserry & Renovation of 33mld WTP at Thiruvalla for Thiruvalla & Changanaserry Municipalities & adjoining Panchayaths	58.00	Renovation of existing WTP, Production components
4	W.S.S. to Perunadu & Athikkayam Villages in Pathanamthitta District (Phase - 2)	41.4	Production components and distribution

Kottayam			
5	Augmentation of UWSS to Kottayam Municipality	50.00	WTP, Production components and Distribution system
Ernakulam			
6	Water supply Distribution strengthening of Kadamakkudi Panchayath	12.00	Distribution system
7	Water supply Distribution strengthening of Varappuzha Panchayath	16.5	Distribution system
Idukki			
8	Augmentation of Urban Water Supply Scheme to Thodupuzha Municipality in Idukki District	`	WTP and Production components
Palakkad			
9	Augmentation of Urban Water Supply to Shornur Municipality and Vaniyamkulam Panchayath -	35.00	WTP and Production components
10	Augmentation of Nenmara, Ayilur & Melarcode Water Scheme in Chittur & Alathur Taluks in Palakkad District (Phase II)	24.50	Production components and distribution
11	WSS to Ambalappara Panchayath in Ottapalam Taluk, Palakkad District - Phase I	10.00	Distribution system
12	Comprehensive WSS to Thachanattukara, Alanallur and Kottopadam panchayaths in Mannarkkad taluk in Palakkad District.	22.00	Production components
Malappuram			
13	Comprehensive WSS to Ponnani & adjoining Panchayaths	74.4	WTP and Production components
14	CWSS to Thiruvalli & Adjoining Villages - Phase I & II - Thiruvalli and Wandoor Part -1	22.2	Distribution system
15	Water Supply Scheme to Tanur Municipality and adjoining 4 Panchayaths - phase 1	100.00	Production components
Kozhikode			
16	WSS to Koyilandy Municipality	85.00	Production components and transmission main
17	Improvements to Ramanattukara Water Supply Scheme by interlinking with WSS to Cheekode and adjoining villages	26.00	Production components and transmission main

Wayanad			
18	Distribution Line Extension from ongoing WSS to Mananthavady, Edavaka and Nalloornadu villages in Wayanad District	18.00	Distribution system
Kannur			
19	WSS to Mattanur and Iritty Municipalities	76.60	Production components
20	Augmentation of WSS to Dharmadam panchayath in Dharmadam Constituency	16.5	Distribution system
21	WSS to Kottayam Census Towns - Strengthening of Distribution system in Thalassery Taluk of Kannur District	12.00	Distribution system
Kasargod			
22	WSS to Kasargode Municipality and Chemmanad Panchayath - Phase - I	76.00	Production components

CHAPTER V

Administrative Wing



Administrative Wing in Head Office is mainly dealing with Human Resource Management. The database regarding all categories of employees and officers (Ministerial & Technical) and its sanctioned post and promotion avenue as per special rules in force are kept almost up to date and tidy.

The normal functions include

- 1 Formulation and amendment of Act, Rules, Regulations, Duties & Responsibilities, Delegation of powers of Employees etc.
- 2 Effect changes in organizational structure as and when needed for efficient hierarchical management. This also include formation of new offices and abolition or merger of existing offices as resolved by the KWA Board.

- 3 Reporting vacancies of entry cadre posts to the Kerala PSC and identifying posts for in service promotion as per provisions in rules
- 4 Issuing appointment orders as per advice of PSC as well as By Transfer appointments as per Rules
- 5 Regularisation of appointments after obtaining Police Verification report and PSC Certificate Verification in respect of each candidate as per Government Orders in force.
- 6 Extension of period of probation in deserving cases and issuing orders of declaration of completion of probation with respect to designated posts.
- 7 Preparing seniority lists in each cadre, Higher Grade ratio promotions and non-cadre promotions to designated posts as per existing rules and Government Orders.
- 8 Effecting promotions in each cadre in two ways
 - A. According to seniority and eligibility as per rules to the superior posts of same cadre.
 - B. According to merit and ability ascertained by the Departmental Promotion Committee after scrutiny of Confidential Reports of candidates to the posts borne in Officer cadre
- 9 The most important tool in managerial control is the allocation of employees to different posts according to suitability of incumbent to particular post. Transfer and postings are done in a transparent manner strictly adhering to the general transfer norms issued by Government and public interest.
- 10 Communication with government on all policy matters affecting the institution is being dealt by Administrative Wing.
- 11 Preparation and submission of agenda before the KWA Board related with Administration and Establishment matters in respect of the firm and employees.
- 12 High Court cases, Human Right Commission cases, Industrial dispute cases and Right to Information Act etc. regarding establishment matters are dealt with by Administrative Wing.
- 13 The service and wage conditions of employees and officers are being managed by the authority through this establishment in accordance with Rules and Government Orders

Administrative Wing in Head Office Constituted under Accounts Officer (Administration & Establishment) includes four Parts

1. Administrative Matters of all category of employees in KWA
2. Establishment Section (Employees under Head Office)
3. Accounts Section (All Accounting procedure in HO)
4. Fair Copy Section

Administrative Wing comprise One Senior Superintendent, One Junior Superintendent and Twelve Clerks, Two Office Attendants

Establishment and Accounts Section comprise One Senior Superintendent, One Junior Superintendent and Six Clerks Two, Office Attendants

Fair Copy Section Comprise Two Fair Copy Superintendents, Six Typists and Inward & Despatch Section Comprise Four Clerks, Two Office Attendants.

CHAPTER VI

JICA Assisted Kerala Water Supply Project

The JICA assisted Kerala Water Supply Project (KWSP) being implemented by Kerala Water Authority comprises of following 5 schemes:

Augmentation and Rehabilitation of Water Supply Scheme to Thiruvananthapuram city Region.

Water Supply Scheme to Meenad and adjoining Panchayaths in Kollam District.

Water supply scheme to Cherthala Municipality and adjoining Panchayaths in Alappuzha district.

Augmentation and Rehabilitation of water Supply Scheme to Kozhikkode City and adjoining Panchayaths.

Water Supply Scheme to Pattuvam and adjoining Panchayaths in Kannur district.

Key features of the project

Scheme	WTP (MLD)	Transmission Main (km)		Distributio n Main (km)	Service Reservoirs (No.)
		Raw Water	Treated Water		
TVM	74	0.30	41.32	388	11
Meenad	71	1.58	80.40	963	14
Cherthala	107	20.88	81.00	663	18
Kozhikode	174	0.44	123.31	1853	20
Pattuvam	90	11.54	82.00	623	13
Total	516	34.74	408.03	4490	76

The project is nearing completion. The major components of all the five schemes under the project have been completed for production, transmission and storage of treated water viz, intake, raw water pumping/gravity mains, transmission systems and service reservoirs. The installed capacity of all the schemes is 516 MLD, for raw water pumping and production of treated water. The treatment plants are based on state-of-the- art design, using either lamella plate clarifier technology or sludge blanket clarifiers and equipped with automatic control and operational features. For raw water pumping from source to Water Treatment

Plant, 34 km of pipe lines and for clear water transmission 408 km of pipe lines have been laid for the five schemes overall. There are 76 new Ground Level or Over Head Service reservoirs constructed for the five schemes with an overall capacity of 232.96 Million litres for the distribution of treated water.

The schemes are operational now except for the following (i). portion of distribution networks of Meenad and Kozhikode schemes (ii). rehabilitation works of existing water treatment plants of Thiruvananthapuram and (iii) a few components of Institutional Strengthening. Of 4490 km of distribution lines envisaged in the five schemes, about 3897 km has been laid and remaining to be laid is 593 km (Kozhikode:458 km and Meenad:135 km). The distribution networks envisaged for Cherthala and Pattuvam have been completely laid.

The project when fully completed is expected to benefit 41 lakh people. The revised estimated cost of the project is Rs. 2987.40 crores,

The Institutional Strengthening component of KWSP covers various aspects such as Central Control Unit, procurement of equipment's, procurement of services, network & connectivity, servers & storage infrastructure. The work of Central Control Unit which comprise of a 10 storeyed building is completed and made functional. The main components pending completion under IS are ERP, Asset Management and installation of flow meters.

Project Progress

Sl. No.	Schemes	Planned Progress	Achieved Progress %
1	Thiruvananthapuram Scheme	100	96
2	Meenad Scheme	100	96
3	Cherthala Scheme	100	100
4	Kozhikkode Scheme	100	96
5	Pattuvam Scheme	100	100

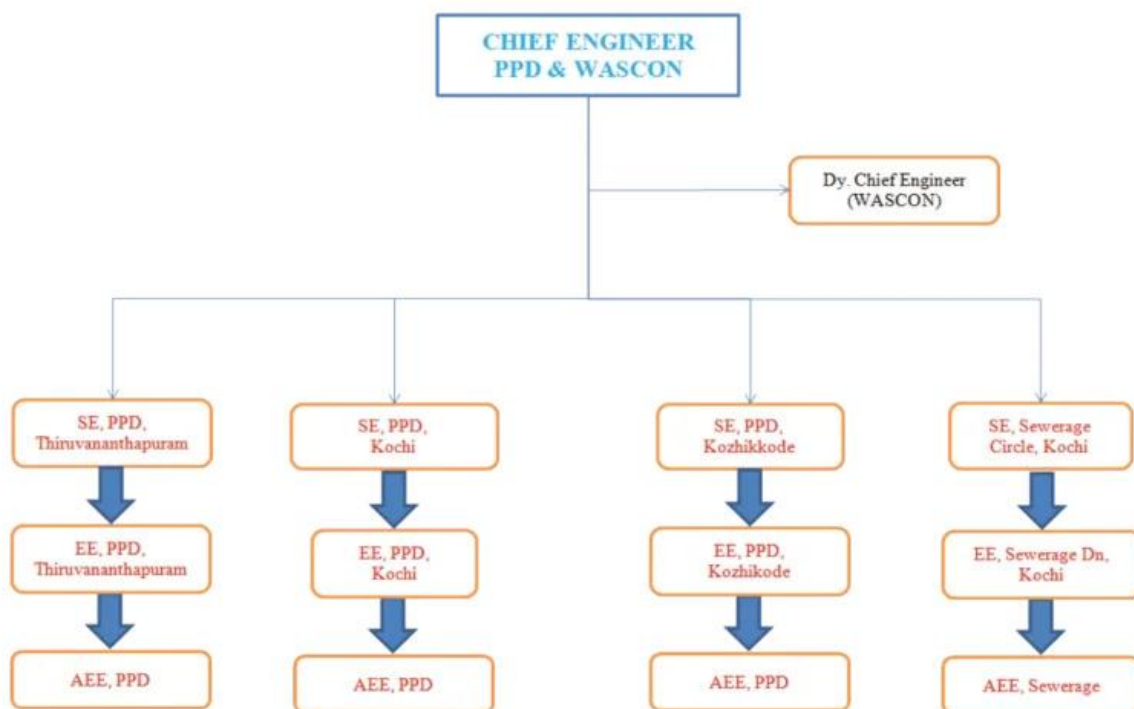
Physical progress achieved as on 31/03/2018

Trivandrum	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	contract closed	Contract terminated and rearranged as PIII – R1
	III-R1	Distribution Systems	100%	Balance length under the scope has been covered by pipe laying works under other programmes.
	IV	Service Reservoirs	100%	Completed
	V	Rehabilitation Works of Existing System	85%	Termination notice issued due to breach of contract by the contractor
Meenad	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	work terminated	Contract terminated and rearranged as PIII – R1
	III-R1	Distribution Systems	43.15%	Terminated due to poor progress. Balance work retendered. But the bidder did not qualify the prequalification requirements. So the work is again retendered
	IV	Service Reservoirs	100%	Completed
Cherthala	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	
	III	Distribution Systems	100%	
	IV	Service Reservoirs	100%	

Kozhikode	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	IIA	Treated Water Transmission Pipeline	100%	Completed
	IIB	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	work terminated	Contract terminated and rearranged as PIII – R1 & R2
	III-R1	Distribution Systems	55.63%	May 2019
	III-R2	Distribution Systems	56.51%	May 2019
	IV	Service Reservoirs	100%	Completed
	IV-R1	Service Reservoirs at Thalikulathur	100%	Completed
	IV-R2	Service Reservoirs at Kakkur	100%	Completed
	IV-R3	Service Reservoirs at Narikunni	100%	Completed
	V	Rehabilitation Works of Existing System	98%	All works completed except power allocation
Pattuvam	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	Contract terminated and rearranged as PIII –R1 , R5 & R6	Completed
	III-R1	Distribution Systems	100%	
	III-R5	Distribution Systems	100%	
	III-R6	Distribution Systems	100%	
	IV	Service Reservoirs	100%	

CHAPTER VII

PPD & WASCON



WASCON, the consultancy wing of Kerala Water Authority was setup as per GO(Rt.)45/2008/WRD dated 08/01/2008 with intention of providing Engineering Consultancy services for inhouse works and outside works. Since its inception, WASCON has taken up many design works as well as preparation of project reports for many Water Supply Schemes. Detailed Project Reports for Jananidhi Phase I, Jananidhi Phase II, Water Supply Scheme to Technocity, Thiruvananthapuram, WSS to KINFRA Industrial Park Kanjikkode, Distribution network for Kochi Corporation & adjoining Panchayaths were some of the works prepared by WASCON. WASCON had also done designs for many Water Treatment Plants and Service Reservoirs. Design for 100 mld Water Treatment Plant for JnNURM Water Supply Augmentation for Kochi Corporation was one among them.

Later on Project Preparation and Development Unit was formed vide proceedings no. KWA/JB/E2(A)/18977/2015 of Managing Director dated 27-02-2016 by

reorganizing WASCON so as to take up preparation of well-planned and well-designed projects.

The Unit is headed by a Chief Engineer and has 3 regional offices at Thiruvananthapuram, Kochi and Kozhikkode which are headed by Superintending Engineers. In addition there are Camp offices in each district which is under the control of Assistant Engineer. Survey works are done by the Camp offices and engineering reports are prepared and submitted to the higher offices for approval. **Organizational Structure – PPD & WASCON.**

List of works - 2017-18 (PPD&WASCON)

1	DPR verification for Augmentation of WSS to Kollam Corporation
2	Augmentation of WSS to Pallickal Pt. in Varkala Constituency - Laying water supply distribution network in Pallickal Pt. and allied works - hydraulic design in DER
3	NRDWP – WSS to Muttom and Karimkunnampalayam Panchayath in Idukki district (Phase I) – package II – design of 8MLD water treatment plant and 5.2 LL clear water sump and allied works at Perumattom.
4	RWSS to Kaduthuruthy and adjoining villages – Kuravilangudi area in Kottayam – design of sump cum boosting station at Thottuva and GLSR and OHSR at Oleekkamala
5	CWSS to West Kallada, Sasthamcotta, Sooranadu South Panchayath – Phase II – design of 8.35 LL OHSR, 1.5 LL sump cum pump house at Kakkakunnu.
6	WSS to Haripad and 10 adjoining Panchayaths Phase II – design of 14LL OHSR at Pallippad.
7	NRDWP – WSS to Pavaratty and Mullassery panchayaths – design of 5.5 LL OHSR at Mullassery.
8	NRDWP – WSS to Pavaratty and Mullassery panchayaths – design of 6.7 LL OHSR at Pavaratty.
9	KIIFB – 2016-17 – WSS to Kalluvathukkal, Parippally and Velinalloor (Part) village – design of 9LL OHSR at Kattuppuram and 11.3LL OHSR at Kalluvathukkal.
10	KIIFB – 100 MLD WSS to Thrissur Corporation and adjoining panchayaths – design of 32LL OHSR at Kuriyachira and 20 LL OHSR at Nedumpuzha.
11	SAARK – Water supply improvements to Thalassery municipality and adjoining towns – design of substation building and watchman cabin.

12	KIIFB – Augmentation of WSS to Kollam Corporation – Phase II – Design of 54 LL OHSR at Manichithodu.
13	RWSS to Vazhappally – Augmentation of water supply to Thuruthy and adjoining areas in Vazhappally panchayath – design of 2LL OHSR, 1LL sump and pump house.
14	AMRUT – 2015-16- Completion of UWSS to Ollur and Edakunni – Design of 20LL OHSR at Ollur – technical advice
15	WSS to Aligarh Muslim University and Perinthalmanna Municipality in Malappuram district – DER
16	SAARK – Water supply improvements to Thalassery municipality and adjoining towns – design of pipe line bridge.
17	KIIFB – WRD 002- Augmentation of UWSS to Thodupuzha municipality in Idukki District (package I)- design of 15MLD output capacity WTP, 6.6LL capacity sump and renovation of existing 12m diameter well cum pump house
18	KIIFB – Augmentation of 24MLD water treatment plant at Kallissery and renovation of 33 MLD water treatment plant at Thiruvalla for Thiruvalla and Changanassery municipalities and adjoining panchayaths – design of 22LL OHSR, 15LL OHSR, 2LL sump cum pump house at Thirumoolapuram.
19	KIIFB – Augmentation of Water supply scheme to Kollam corporation Phase II – design of 12m diameter intake well cum pump house at Njankadavu.
20	Improvements of WSS to Kondotty municipality in Malappuram district – revision of DER
21	DRW – RWSS to Andoorkonam grama panchayth – design of 50000L GL tank
22	Annual Plan 2017 -18 – Green book – CWSS to Chittur, Thattamangalam municipality and Vadavannur panchayath – design of 8MLD water treatment plant and 9.5LL OHSR
23	Augmentation of RWSS to Aryad Panchayath – Design of 3.5LL OHSR at Komalapuram.
24	Augmentation and modernization of water supply distribution system in Alappuzha municipality under AMRUT – Design of 28LL OHSR at Allissery, 21LL OHSR at Kommady, 10LL OHSR at Pazhavangadi and 12LL OHSR at Thattampally.
25	WSS to Ala, Puliyoar, Bhudhanoor and Pandanad panchayath – design of 8LL OHSR at Pandanad and 16LL OHSR at Puliyoar.
26	KIIFB – Augmentation of WSS to Dharmadam panchayath – design of 13LL OHSR
27	NABARD RIDF XVII CWSS to Sulthan Bathery, Nulpuzha & Muttill - 16 MLD WTP, 7 LL & 5 LL Reservoirs - Design verification
28	KIIFB - SIP - CWSS to Thachanattukara 19 mld WTP - Design verification
29	AMRUT – 2016-17- Water Supply System to Guruvayoor Municipality
	i) Design and sketch of 15 mld WTP for estimate purpose
	ii) Design of RWPM

30	NRDWP - CWSS to Elappully, Nallappully, Pattanchery, Perumatty Panchayaths in Palakkad District - 18 mld WTP
31	SAARK Project - CWSS to Parassala and adjoining villages & Marukil and Maranalloor villages - Design of raw water and Clear water pumpsets
32	CWSS to Vithura & Tholicode villages CW Pumpset to OHSR at Thottamukku
33	KWA - JICA - Pattuvam and adjoining villages - Package III Pt. - Repair of heavy leakage in the 400mm dia HDPE pipe laid under water in Tekkumbadu river and anchoring of 400mm HDPE pipe line for seating the floating pipe line in the river bed in Mattool river
34	NABARD - RWSS to Mallappally, Anicadu and Kottangal Panchayath. Design of transformer room and road way for 9m diameter intake well cum pump house at Kozhimannil kadavu.
35	Augmentation of Kochi WSS - improvements to Edakochi area - design of pump house
36	CRWSS to Nedumbram, Niranam, Kadapra and Peringara panchayath in Pathanamthitta district – Phase I – design of 7LL OHSR at Modissery and 3.5LL OHSR at Nedumburam.
37	5mld WTP at Nedumpara for Konni Medical College
38	WSS to Pallickal Panchayath in Varkala Constituency - Hydraulic Design for distribution network
39	CWSS to Vithura & Tholicode villages - Clear water pumpsets to OHSR at Thottamukku - Details of pumpsets
40	5mld WTP at Nedumpara for Konni Medical College clariflocculator, CWR, GA of filter house components
41	KIIFB - WRD - 002 - 11 - Special instrument package - WSS to Mattannur and Iritty Municipality - Package I - Design of pumpset and surge analysis report
42	WSS to Seethathode Panchayath and Nilakkal Plappally areas in Perunadu Panchayath - Design of 9m dia Well cum Pump house and 13 mld WTP at Seethathodu
43	WSS to Velliyamattom and Alakode - Design of 4 mld WTP at Nellikamala in Idukki.
44	CRWSS to Nedumbram, Niranam, Kadapra and Peringara Pt. - Design of 3.5 LL capacity OH tank at Nedumbram and supplying & laying of 300mm, 250mm.
45	KIIFB - SIP - Augmentation of Urban Water Supply Scheme to Shornur Municipality and Vaniyamkulam Panchayaths - Design of 20 mld WTP
46	WSS to Kozhencherry Phase I - Supply and erection of Raw Water Pumpsets, installation of transformer - Design of transformer building in Well cum Pump house site at Kaithavanakadavu in Kozhencherry Pt.
47	KIIFB - SIP - WSS to Mattannur & Iritty Municipality - Design of 42 MLD WTP
48	KIIFB - SIP - CWSS to Thachanattukara, Alanalloor and Kottopadam panchayaths in Mannarkadu Taluk in Palakkad district - Design of WTP
49	NABARD - RIDF XVII - NABARD assisted CWSS to Sulthanbathery, Noolpuzha Muttil panchayath - Phase I - Design of 12 LL OHSR, 3 LL OHSR

50	KIIFB - SIP - Augmentation of WSS to Nenmara, Anjiloor and Melarcode in Chittoor and Alathur Taluk in Palakkad district - Phase II - Package II - Design of 9.50 LL OHSR
51	KIIFB - SIP - WSS to Mattannur & Iritty Municipality - Package I - Design of 12mm dia Intake well cum Pump house & 42mld Water Treatment plant.
52	UIDSSMT - WSS to Guruvayur and Chavakkad Municipality packages - Package III - CWGM - Designing of RCC Sleeves
53	Amrut - Augmentation of WSS to Kollam Corporation - Phase II - Package III - Design of Steel pipe bridge parallel to Mulakkada bridge
54	A Sewerage Treatment Plant for EMS Colony at Poovar Grama panchayath, Thiruvananthapuram District - vetting of DER.
55	UIDSSMT - Aug of WSS to Alappuzha municipality and adjoining 8 Panchayaths - 100mm HDPE RWPM from intake well cum pump house at Kadapra to WTP at Karumady - surge analysis.
56	CWSS to Puramattam, Kallooppa, Ezhumattoor, Kunnamthanam, Eraviperor, Koipuram, Thottappuzhassery - pumping main - epanet.
57	Kinfra Palakkad.
58	Design of pumpset to Kudappanakkunnu tank.
59	Augmentation of Parvathy Regional WSS - supply and laying 700mm DIK 9 RWPM from Well site to WTP site Mudavannoor - PM design and surge analysis.
60	CWSS to Kottarakkara Municipality and Neduvathur panchayath in Kollam District PER verification.
61	KIIFB Augmentation of WSS to Kottayam Municipality - Design of 50MLD WTP at Peroor.
62	KIIFB WSS to Kasaragod Municipality & Chemmad Panchayath - Design of 55MLD WTP at Bovikkanam.
63	AMRUT - WSS to Kannur Corporation - Design of 14 LL OHSR at Thottada.
64	AMRUT - Kochi Design of 15L.L. capacity GLSr at Karuvelipady.
65	AMRUT - TSS - Design of pipe line bridge at Muttathara.
66	GIDA - Deposit work Kochi pipe bridge across malipurathupuzha.
67	Verification Water hammer problems / pumping main designs
68	NABARD - WSS to Udayapamperur Grama Panchayath - Survey for 100km, Hydraulic design and structural design of OHSR.
69	DER of CWSS to Chirayinkeezhu and Adjacent Grama Panchayaths.
70	DER of Augmentation of WSS to Varkala Municipality and adjacent Grama Panchayaths.
71	DER of WSS to Kottarakkara Municipality and nduvathoor Panchayaths.
72	DER of CWSS to Pathanamthitta Municipality and adjoining Grama Panchayaths.
73	DER of WSS to Mundakayam Panchayaths.
74	DER of CWSS to Aryanadu and Uzhamalakkal Grama Panchayaths.
75	DER of CWSS to Pulimath and adjacent Grama Panchayaths.

76	DER of WSS to Elampalloor Panchayaths.
77	DER of CWSS to Pathanamthitta Municipality and adjoining Grama Panchayaths.
78	DER of WSS to Erattupetta and adjoining Panchayaths.
79	DER of WSS to Koruthodu and Mundakkayam Panchayaths.
80	DER of Nelliyan Sump to IIST Campus Valavoor.
81	DER of WSS to Ettumanoor
82	DER of WSS to Karimbukayam at Kanjirappally & Chirakkadavu Panchayath.
83	DER of WSS of Vijayapuram.
84	DER of Improvement of Water Supply to various places under Pongummoodu Section.
85	DER of Improvement of Water Supply to Chemmaruthy and Ottoor Panchayath areas under Varkala Section.
86	Malampuzha Constituency - WSS improvement - Design in final stage.
87	Elavancherry Pallassana at palakkadu District - The design of production components from intake at Pothundi Dam, WTP and transmission main given to project division.
88	WSS to Vomdazhi - Design of transmission main and reservoir capacity; design completed.
89	WSS to Karimba - Kongad - detailed site investigation done jointly with project division - sites finalised.
90	WSS to Kozhinjampara - Jalagramam - Design of production components given.
91	AMU Perinthalmanna - 22 MLD - Design given.
92	WSS to Valancherry Edayar Irimblam - 26mld Design given.
93	Kondotty improvement - Design given - Transmission and distribution only within the area.
94	WSS to Feroke - Design for tapping from JICA line with PPD for vetting - design given.
95	WSS to Mavoor - Chathamangalam - 62 MLD utilises surplus water at Mavoor WTP; source; Chaliyar - design given.
96	WSS to Payam - Ayyankunnu and WSS to Peravoor Muzhakkunnu - Clubbed the scheme 21 MLD design given.
97	Edavana - Vetting of Raw water pumping main to proposed WTP.
98	Payyoli - New project for Payyoli and adjoining panchayaths with augmentation for Vadakara 70 MLD.
	Major Achievements
	Completed all design works entrusted to it.

CHAPTER VIII

COMPUTERISATION AND IT-INITIATIVES (2017-2018)

During 2017 –2018 Kerala Water Authority brought in 4,00,000 more connections to Centralized Spot Billing System – e-Abacus. Achieving 93% of Consumer Population (ie more than 1960630 out of 21,00,000 Water Connections). Development and Integration of State Service Delivery Gateway (SSDG) project, formulated under the National e-Governance Plan (NeGP), is to fulfill the vision of providing easy and convenient services to the citizens through remote access primarily through Common Service Centers (CSCs), thereby enabling the State Portal by implementing the key components State Portal viz. SSDG, electronic Form (e-Forms), Application and Computing Infrastructure was completed.

KWA integrated 5 new services to SSDG Portal. Also Mobile apps for service delivery developed as a part of SSDG Project which is a major foot step in MGovernance. KWA revamped its website to up to date standard and cutting edge technology. KWA developed software for monitoring of consumer complaints which has a provision for consumers to register complaints online. The speciality of the system is that higher management can easily give immediate direction related to complaint redressal to the concerned official and they can involve if there is any delay in the process and can have a chat like discussion in each case separately. Kerala Water Authority integrated with SWIFT- Single Window Interface for Fast and Transparent clearance, an initiative by KSIDC to deliver fast services to entrepreneurs while starting a new industry. KWA bagged the following awards during 2016-17 for its achievements in e-Governance.

- 1 **SKOCH Order Of Merit National Award** for e-Governance for implementation of Janamithra- The Consumer Redressal and Complaint Monitoring Software of KWA.
2. **SKOCH Order Of Merit National Award** for e-Governance for implementation of LIMS-The Laboratory Information Management System.
- 3 **SKOCH Order Of Merit National Award** for e-Governance for implementation of MARCH-HR BILL Monitoring Software of KWA.
4. **SKOCH Order Of Merit National Award** for e-Governance for implementation of O&M Bill Monitoring Software of KWA.

CHAPTER –IX

FINANCIAL PERFORMANCE

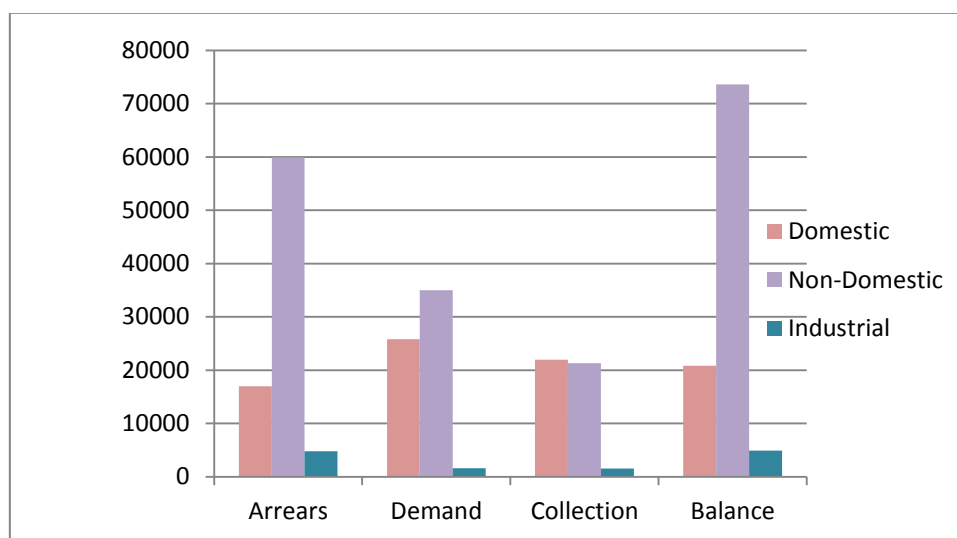
- 5.1 The main source of finance for Kerala Water Authority are revenue from water charges, grants and loans received from Government of Kerala, Government of India and Loans taken from Financial Institutions like Banks. The Government of Kerala provides funds in the budget in the form of loans and grants to undertake drinking water projects and various other works.
- 5.2 The Cash Flow Statement of Kerala Water Authority for the year 2017-18 is given below.

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH, 2018

		Schedule Reference	CURRENT YEAR (Amount in Rupees) Unaudited	PREVIOUS YEAR (Amount in Rupees) Unaudited
INCOME				
1	Operating Income			
	a. Consumers	L	6,223,282,041	5,842,571,055
	b. Others	M	32,016,667	11,408,878
			6,255,298,708	5,853,979,933
2	Grants & Subventions - Government of Kerala		2,809,747,800	2,965,575,000
3	O&M Grant from Government of India		36,569,000	104,652,000
4	Interest Income	N	270,178,211	231,773,645
5	Other Non-Operative Income	O	2,284,241,869	1,845,811,035
	Total Income		11,656,035,588	11,001,791,613
EXPENDITURE				
1	Operating & Maintenance Expenses	P	3,702,503,084	3,353,469,906
2	Payment & Provision to Employees	Q	8,235,403,725	7,340,861,414
3	Office expenses	R	178,836,224	158,901,550
4	Travelling & Conveyance Expenses		49,877,141	52,176,182
5	Administrative Expenses	S	15,139,376	67,923,922
6	Debtors written off	T	939,885,343	
6	Assets and losses written off	U	-	-
7	Provision for Doubtful Debts	V	-	-
8	Interest on			
	a. Secured Loans		61,413,690	120,534,088
	b. Government of Kerala Loans		2,528,018,000	2,497,845,000
	c. GPF		229,509,175	242,223,825
			2,818,940,865	2,860,602,913
9	Depreciation	E	1,274,255,277	1,195,256,977
	Total Expenditure		17,214,841,035	15,029,192,865
10	Transferred to Capital Work-In-Progress	W	614,468,967	468,007,921
			16,600,372,068	14,561,184,944
	Excess of Expenditure over Income		4,944,336,480	3,559,393,331
11	Prior Period Adjustments	X	(24,685,414)	(31,658,014)
	Excess of Expenditure over Income after prior period adjustments		4,919,651,066	3,527,735,317

5.3 Consolidated statement showing the Demand, Collection and Balance of water charges from the domestic , non-domestic and industrial consumers for the year 2017-18.

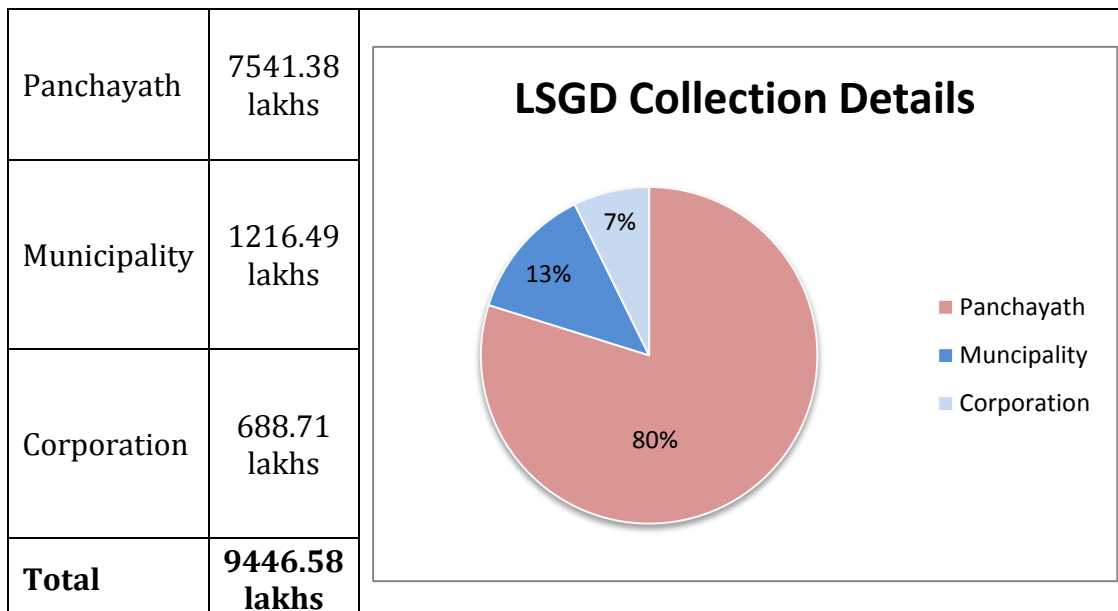
Category	Arrears as on 31.3.17 (Rs. In lakhs)	Cumulative Demand for 2017-18 (Rs. In lakhs)	Collection for 2017-18 (Rs. In lakhs)	Balance outstanding as on 31.03.18 (Rs. In lakhs)	Percentage of collection in terms of demand for 2017-18
Domestic	16980.84	25821.98	21967.04	20835.79	85.07%
Non-Domestic	59916.15	34974.52	21293.47	73597.20	60.88%
Industrial	4805.90	1626.48	1528.58	4903.80	93.98%
Total	81702.89	62422.98	44789.08	99336.79	71.75%



5.3 (a) Arrear of revenue at the beginning of the year 2017-18 - Rs**81702.89** lakhs

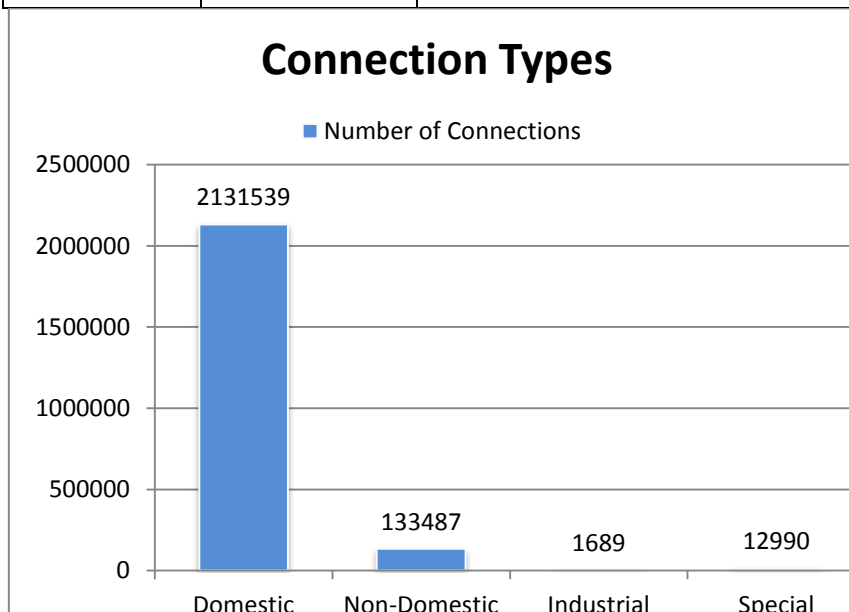
(b) Arrear of revenue at the end of the year 2017-18 - Rs**99336.79** lakhs

5.4. Details of collection from LSGD from 2017-18



5.5 a. Total number of water connections

Sl No.	Catagory	Total No. of Connections
1	Domestic	2131539
2	Non Domestic	133487
3	Industrial	1689
4	Special/Others	12990
	TOTAL	2279705



Chapter-X Establishment

Head Office	1
Regional Office	3
PPD & WASCON	1
Circle Offices	16
Division Offices	49
Sub Division Offices	103
Section Offices	245
TOTAL	

I. Name of Circle Offices				
Sl No	Office Name	District	Office Type	Parent Office
1	Alappuzha PH Circle	Alappuzha	Circle Office	Central Region
2	Kochi JNNRUM Circle	Ernakulam	Circle Office	Central Region
3	Kochi PH Circle	Ernakulam	Circle Office	Central Region
4	Muvattupuzha PH Circle	Ernakulam	Circle Office	Central Region
5	Nettoor SRI Circle	Ernakulam	Circle Office	Central Region
6	Kannur PH Circle	Kannur	Circle Office	Northern Region
7	Kollam PH Circle	Kollam	Circle Office	Southern Region
8	Kottayam PH Circle	Kottayam	Circle Office	Southern Region
9	Kozhikkode PH Circle	Kozhikkode	Circle Office	Northern Region
10	Malappuram PH Circle	Malappuram	Circle Office	Northern Region
11	Palakkad PH Circle	Palakkad	Circle Office	Northern Region
12	Trivandrum JNNRUM Project Circle	Thiruvananthapuram	Circle Office	Southern Region
13	Trivandrum Project Circle	Thiruvananthapuram	Circle Office	Southern Region
14	Thrissur PH Circle	Thrissur	Circle Office	Central Region
15	Alappuzha Circle Office	Alappuzha	Circle Office	Adoor Project Division
16	Thiruvalla PH Circle	Pathanamthitta	Circle Office	Southern Region

II. List Of Division Offices

No.	Office Name	District	Parent Office
1	Alappuzha P.H Division	Alappuzha	Alappuzha P.H Circle
2	Alappuzha Project Division	Alappuzha	Alappuzha P.H Circle
3	Aluva P.H Division	Ernakulam	Kochi P.H Circle
4	Kochi JNNURM WS Division	Ernakulam	Kochi JNNURM Circle
5	Kochi JNNURM WS Division	Ernakulam	Kochi P.H Circle
6	Kochi P.H Division	Ernakulam	Nettoor SRI Circle
7	Kochi Quality Control Division	Ernakulam	Kochi P.H Circle
8	Muvattupuzha P.H Division	Ernakulam	Muvattupuzha P.H Circle
9	Perumbavoor Project Division	Ernakulam	Kochi P.H Circle
10	Piravam Project Division	Ernakulam	Muvattupuzha P.H Circle
11	Kattappana Project Division	Idukki	Muvattupuzha P.H Circle
12	Thodupuzha P.H Division	Idukki	Muvattupuzha P.H Circle
13	Kannur WS Division	Kannur	Kannur P.H Circle
14	Kannur Project Division	Kannur	Kannur P.H Circle
15	Mattanur Project Division	Kannur	Kannur P.H Circle
16	Thaliparambu WS Division	Kannur	Kannur P.H Circle
17	Kasargod P.H Division	Kasaragod	Kannur P.H Circle
18	Kollam P.H Division	Kollam	Kollam P.H Circle
19	Kollam Project Division	Kollam	Kollam P.H Circle
20	Kottarakkara P.H Division	Kollam	Kollam P.H Circle
21	Kaduthuruthy Division	Kottayam	Kottayam P.H Circle
22	Kottayam P.H Division	Kottayam	Kottayam P.H Circle
23	Kottayam Project Division	Kottayam	Kottayam P.H Circle
24	Thiruvalla P.H Division	Pathanamthitta	Kottayam P.H Circle
25	Kozhikkode P.H Division	Kozhikkode	Kozhikkode P.H Circle
26	Kozhikkode Project Dn	Kozhikkode	Kozhikkode PH Circle
27	Kozhikkode Quality Control Dn	Kozhikkode	Nettooor SRI Circle

28	Vadakara PH Division	Kozhikkode	Kozhikkode PH Circle
29	Malappuram PH Division	Malappuram	MalappuramPH Circle
30	Malappuram PH Division	Malappuram	MalappuramPH Circle
31	Palakkad PH Division	Palakkad	Palakkad PH Circle
32	Palakkad Project Division	Palakkad	Palakkad PH Circle
33	Shornur PH Division	Palakkad	Palakkad PH Circle
34	Adoor PH Division	Pathanamthitta	Kollam PH Circle
35	Pathanamthitta PH Division	Pathanamthitta	Kollam PH Circle
36	Attingal WS Division	Thiruvananthapuram	Trivandrum PH Circle
37	Neyyattinkara WS Division	Thiruvananthapuram	Trivandrum PH Circle
38	Pattoor Sewerage Division	Thiruvananthapuram	Trivandrum PH Circle
39	Trivandurm North PH Division	Thiruvananthapuram	Trivandrum PH Circle
40	Trivandurm Project Division	Thiruvananthapuram	Trivandrum PH Circle
41	Trivandurm Quality Control Division	Thiruvananthapuram	Nettoo SRI Circle
42	Trivandrum South PH Division	Thiruvananthapuram	Trivandrum PH Circle
43	Edappal Public Health Division	Malappuram	MalappuramPH Circle
44	Irinjalakkuda PH Division	Thrissur	Thrissur PH Circle
45	Nattika Project Division	Thrissur	Thrissur PH Circle
46	Thrissur PH Division	Thrissur	Thrissur PH Circle
47	Sulthan Bathery PH Division	Wayanad	Kozhikkode PH Circle
48	Aruvikkara HW Division	Thiruvananthapuram	Trivandrum PH Circle
49	Kozhikkode KSUDP Swerage Dn	Kozhikkode	Kozhikkode PH Circle

III. Number of Promotions

- a. Plumbing Inspector to Senior Plumbing Inspector : 3 Nos
- b. Plumber to Plumbing Inspector : 4 Nos
- c. Selection Grade Driver to Vehicle Inspector : 1 No.
- d. Senior Grade Driver to Selection Grade Driver : 1 No.
- e. Driver Grade 1 to Senior Grade Driver : 4 Nos
- f. Driver Grade II to Driver Grade I : 10 Nos
- g. D'man Grade II to D'man Grade-I : 109 Nos
- h. Overseer Grade-III to D'man Grade-II : 39 Nos
- i. Meter Reader to Meter Inspector : 10 Nos
- J. Meter Inspector to Senior Meter Inspector : 5 Nos

k.	Operator to Head Operator	: 141 Nos
l.	Last Grade Servants to Lower Division Clerk	: 27 Nos
m.	Selection Grade Typist to Fair Copy Superintendent	: 4 Nos
n.	Internal Auditor to Senior Accounts Officer	: 1 No.
o.	Accounts Officer to Internal Auditor	: 2 Nos
p.	Senior Superintendent /Revenue Officer to Accounts Officer	: 9 Nos
q.	Junior Superintendent to Divisional Accounts Officer	: 3 Nos
r.	Superintending Engineer to Chief Engineer	: 5 Nos
s.	Executive Engineer to Superintending Engineer	: 7 Nos
t.	Head Clerk to JS	: 26 Nos
u.	U.D Clerk to Head Clerk	: 40 Nos
v.	Assistant Engineer to Assistant Executive Engineer	: 22 Nos
w.	Assistant Executive Engineer to Executive Engineer	: 14 Nos
x.	Surveyor to Head Surveyor	: 5 Nos

IV. Appointment in various cadres by Kerala Public Service Commission

a.	Lascar	: 84 Nos
b.	Legal Assistant	: 1 No.
c.	Driver Grade II	: 1 No.
d.	D'man Grade.II	: 148 Nos
e.	D'man Grade.I	: 81 Nos
f.	Assistant Engineer	: 126 Nos
g.	Overseer Grade-III	: 74 Nos

h.	Operator	: 400 Nos
i.	Typist	: 1No.
j.	Office Attendant	: 192 Nos
k.	Watchman	: 159 Nos
l.	LDC (by transfer)	: 7 Nos

V Staff strength of Kerala Water Authority

1	Total employee strength of Kerala Water Authority	6932
2	No. of employees working on contract basis	03
3	No. of employees working on deputation	01
4	Dismissals during the year	1
5	Disciplinary proceedings against employees	38

VI. Retirement during the year 2017-2018.

a.	Chief Engineer	: 5 Nos
b.	Superintending Engineer	: 1 No.
c.	Head Clerk	: 10 Nos
d.	Junior Superintendent	: 5 Nos.
e.	Confidential Assistant	: 1 No.
f.	Upper Division Clerk	: 6 Nos
g.	Driver	: 7 Nos
h.	Fitter	: 2 Nos
i.	Plumber	: 4 Nos
J.	D'man Grade.I	: 14 Nos
k.	D'man Grade.II	: 6 Nos
l.	Assistant Executive Engineer	: 8 Nos
m.	Executive Engineer	: 9 Nos

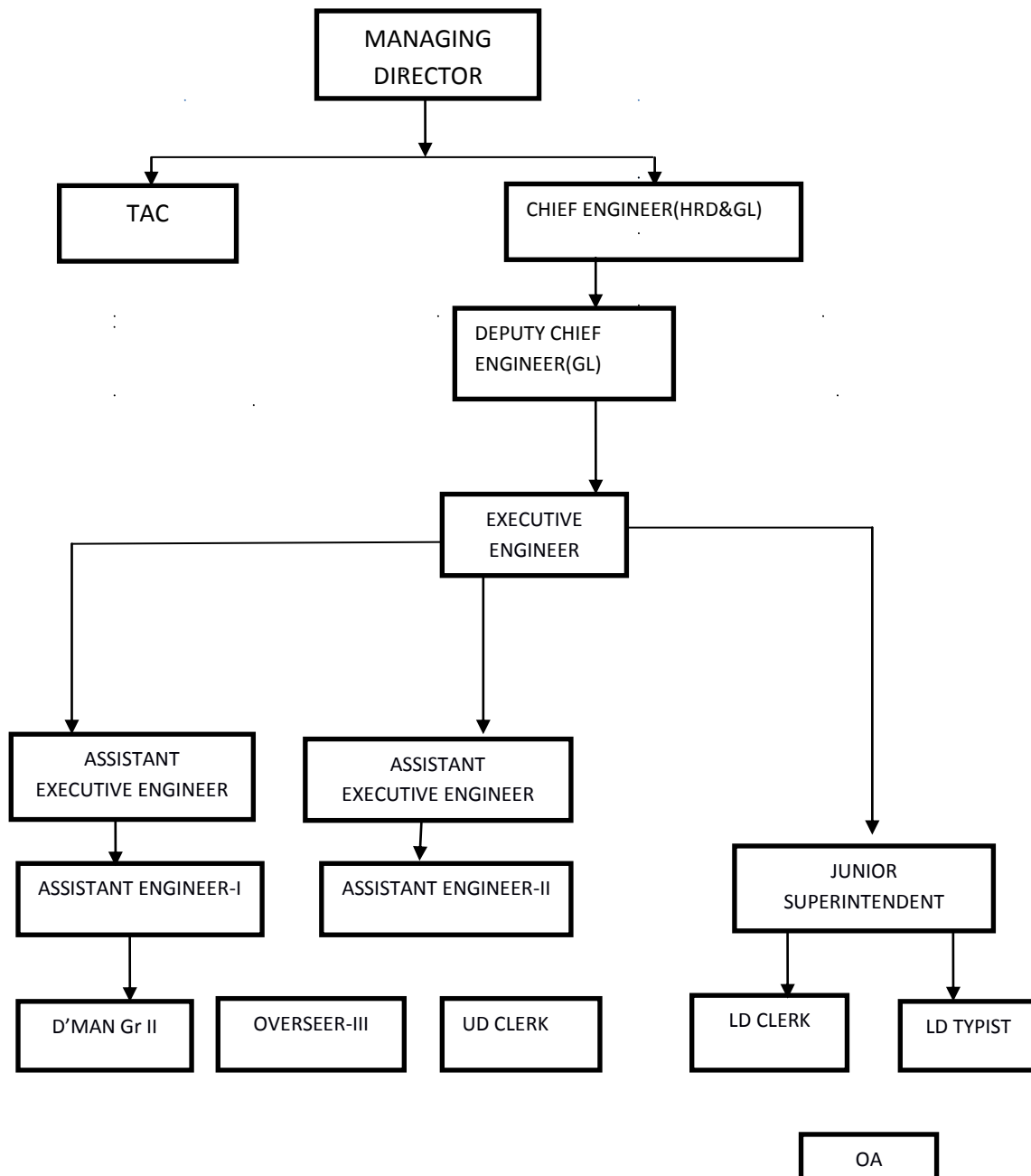
n. Assistant Engineer	: 37 Nos
o. Accounts Officer	: 1 No.
p. Internal Auditor	: 1No. (VRS)
q. Senior Accounts Officer	: 2 Nos
r. Meter Reader	: 19 Nos
s. Meter Inspector	: 15 Nos
t. Operator	: 62 Nos
u. Office Attendant	: 1 No.
v. Typist	: 1 No.
w. Lower Division Clerk	: 2 Nos

VII. Post Created/Abolished during the year
NIL

Chapter-XI

TRAINING ACTIVITIES

(1) ORGANISATIONAL CHART OF TRAINING CENTRE (2017-2018)



II .Review of Training Activities during 2017-2018

Details of In-house trainings, Workshops, seminars, external Trainings and MTech programs conducted during 2017-2018 are shown in Annexure 1 (i.e., from Tables 1 to 7)

A total of 2361 KWA officials were trained in the inhouse training programmes during 2017—2018 as per Table 1 & 2. . Also 7 work shops/Seminars were conducted participating 339 employees during the year (Table 3). During the year, 12 persons were given training through the CPHEEO sponsored refresher courses at various states.(Details attached in table 4).27 Officers were nominated for attending the trainings conducted by external agencies outside the state as detailed in Table 5. We have also sent 86 officers for attending programs conducted by other agencies within the state as detailed in Table 6. Also 5 officers were deputed for doing M.Tech program. Thus in total 2830 employees were given training through 118 programmes.

Financial Performance

The plan fund available for Training, Quality Control, Research and Development was Rs.275 lakhs as per budget provision 2017-2018. The total expenditure (during 2017-18) incurred up to March 2018 for training activities is Rs. 58,01,539/-. This is excluding the TA and DA paid for outside trainings and inhouse trainings which were disbursed from the respective offices to which the participants belong. This would come to approximately Rs. 50 lakhs, which can be booked under the Training head 3461. Thus the total expenditure for training activities was Rs. 108 lakhs approximately. Including the Reimbursement claim of Rs. 3,03,700/- for M.Tech tuition fees and Exam fees during the year 2017-18 the expenditure incurred is Rs. 111.05 lakhs . Apart from this, the expenditure incurred in connection with PLE was Rs. 72600/- . Thus the total expenditure incurred is Rs. 111.77 lakhs.

During the last year, we have generated an income of Rs. 19,00,835/-from external agencies both private and Government and as rent for Training halls and hostel rooms. An amount of Rs. 1,80,200/- which was pending as arrears during 2016-17 from ASAP mission was still pending. We have addressed them so many times and reminded for clearing the dues at the earliest but no response has received till date.

ANNEXURE -1

Table 1. Details of in house trainings conducted as per Calendar 2017-2018

Sl. No.	Title of Course	No of Batches proposed	No of Batches conducted	No.of Participants proposed	No. of participants attended
1	Induction Level Training to Overseers/Draftsman	3	3	105	109
2	Induction Level Training to Assistant Engineers	2	2	70	101
3	Training course on Epanet	1	1	30	31
4	Training on Orientation to Overseers	2	2	60	82
5	Training course on General Design principles of WTP	1	1	35	32
6	Training course on Water supply act, water connection and e-Abacus	3	5	90	161
7	Taining on Pipe Laying and Testing	2	1	60	34
8	Training on Tenders and contract preparation of Tender Documents	1	1	30	41
9	Training on Team Building	1	1	30	37
10	Training on Feasibility study and preparation of Project report	1	1	35	36
11	Training course on O&M of Sewerage system	1	1	30	33
12	Computer Aided Drafting	1	1	30	25

13	Design and selection of Pumps and motors	1	1	35	36
14	CPHEEO sponsored Total Quality Management	2	1	60	18
15	Field Training on Total Station	3	1	30	10
16	Field Training on Total Station - Advanced level	3	4	30	38
17	Induction Level Training to Meter Readers	1	1	35	28
18	Training on e-tendering	2	1	60	29
19	Handling of Chlorine	3	1	75	18
20	Training on Management skills to Executives	1	1	30	25
21	O&M of Pumps and Motors	1	2	35	63
22	Measurement and preparation of Bills	1	1	35	34
23	Basic structural Awareness for Engineers	1	1	35	28
24	Training on Water quality Monitoring	1	1	35	37
25	Training on Recent Trends in Sewerage Sector	1	1	30	22
26	Training for Field Engineers	1	1	35	20
27	Training on Improving Revenue - Best Practices	1	1	35	30

28	Training on Estimation with DSR	5	3	175	93
29	Training on Recent Trends in Water Supply	1	2	35	47
30	Training on Refresher Course to Operators	1	1	35	36
31	Training on PRICE Software	2	3	60	89
32	Training on NRW & Leak Management	2	1	35	22
33	Training on Bill Audit	1	1	35	36
34	Traning on Tally Accounting software system	1	3	30	85
35	Training on Works and Fixed Assets	1	1	35	31
36	Training on Malayalam Typing	1	1	25	34
37	Training on Vigilance Awareness	1	1	30	32
	Total	58	56	1695	1663

Table 2: Inhouse Training Programme Outside calendar 2017-2018

Sl .No	Name of Training	No of Batches conducted	Venue	Duration in days	No of Participants attended
1	NPS	4	CWED	1	155
2	Projects Monitoring system and MS Projects	2	CWED	2	65

3	Training for Plumbing	1	CWED	1	42
4	Training for Plumbing	1	Govt. Guest House, Ernakulam	1	54
5	Taining on Attendance Management system	4	CWED	1	85
6	Training on Bharana Bhasha	2	CWED	1	77
7	Training on GST	2	CWED	1	40
8	Training for Head Operators	1	CWED	4	41
9	Training for Operators	1	CWED	5	38
10	Training on Kerala Service Rules	1	CWED	1	32
11	Training on KSCBC	3	CWED	1	69
	Total	22		19	698

Table 3. Details of Workshops/Seminars

Sl. No	Name of Workshop	No of Batches	Venue	Duration in days	No of Participants
1	Workshop on SDC	1	CWED	1	19
2	Review Meeting of MD	3	CWED	3	154

3	Workshop on analyse Sewerage Data	1	CWED	1	20
4	Workshop on streaming of Tender Procedures	1	CWED	1	39
5	Meeting of Hon' Minister	1	CWED	1	107
	Total	7		7	339

Table 4. CPHEEO sponsored Outside state trainings

Sl. No	Name of Course	Conducted by	No of Officers sponsored
1	Computer Aided Design of Water Supply and Sewer Network	All India Institute of Local Self Government	10
2	Computer Aided Design of Pipe lines and pipe network for water supply of sewerage systems	VNIT, Nagpur	2
	Total		12

Table 5. Outside State Trainings By Various External Agencies

Sl. No	Name of Course	Conducted by	No of officers sponsored
1	Preparation of DPR and Tender documents for sewage Treatment Plant	ESCI Campus, Hyderabad	3
2	Geo - Informatics and IT application for urban local bodies	ESCI Campus, Hyderabad	1
3	Advance level training workshop on RO-UF design, operation and mace and trouble shooting, water re-use recycling, Chennai	ENVIRON consulting Private Ltd.Chennai	2

4	Construction & contract Management for Water Resource Projects	National Water Academy, Pune	10
5	5th India Water week 2017-water and energy for inclusive growth	India water week, Delhi	1
6	Threats of water hammer to fluid system(Reliability and remedies)	International Buisness Conference, Mumbai	4
7	Continery professional development programme performance evaluation of STP CETPS penetrial aspects, at ESCI campus	ESCI Campus,Gachi Bowli Hyderabad	1
8	Delegate participants in India Water Technology meet & national conference on sustainable water management	EA Water Private Ltd., Bangalore.	3
9	Two days worksop on Industrial pumps with alignment techniques	ICW, Mumbai	2
	Total		27

Table 6. Inside State Trainings/Workshops/Seminar by External Agencies

Sl. No	Name of course	Conducted by	No of Engineers Sponsored
1	Orientation training for Internal vigilance officers	Institute of Management in Govt, Trivandrum	2
2	Two day workshop on Finance for Non-finance Executives	HLL Management Academy, Trivandrum	1
3	National Workshop on Spce applications for sustainable growth and advancements SAGA 2017	KSREC	1
4	Two cities seminar on ESI& EPF with latest amendments for the professionals in Government Industry	Calista Global	3

5	Water Transmission & Distribution Engineering	FCRI, Palakkad	6
6	Refresh training for Internal vigilance officers	IMG, Trivandrum	1
7	One day seminar on GST regime opportunities of challenges in various sectors	Indian Institute of Material Management (IIMM), Trivandrum	1
8	One day training at International Centre for free and open source software(ICFOSS)	ICFOSS 7th floor Thejaswini, Technopark, Thiruvananthapuram	3
9	Space applications for sustainable growth and advancements SAGA 2017	Mascot Hotel, Trivandrum	1
10	WRMTP - Integrated Water Resources management of CWRDM	The Senate Hotel, Ernakulam	4
11	WRMTP -Water quality Monitory techniques	CWRDM, Kozhikode	3
12	Geospatial strategy forum: fostery state Geospatial strategy	Geospatial at Hotel Fortune, South Park, Thiruvananthapuram	1
13	WRMTP Trraining course on Introduction to application of RS&GIS in Water Resources Management	CWRDM, Kozhikode	2
14	Mastering Projects with Geospatial Analysis	TPLC	5
15	Orientation training for Internal vigilance officers	Vigilance Anti-corruption Bureau, IMG Thiruvananthapuram	1
16	Invitation for 2nd Biennial commemorative lecture in momeory of Prof.T.S. Ramanatha Ayyar	College of Engineering, Thiruvananthapuram	3
17	Seminar on Wind Storms, Damages of preventive measures	Moscot Hotel, Trivandrum	5
18	Summit and expo on Water Resource Management	Hotel Apollo, Dimora, Thampanoor, Thiruvananthapuram	3

19	Workshop on VACB	VACB Directorate conference Hall	15
20	Workshop on World Water Day	IMG, Trivandrum	25
	Total		86

Table 7: M.Tech Program

Sl No.	Name of course	No. of seats proposed	No. of participants attended
1	M.Tech Govt. Colleges (College of Engineering, Trivandrum & Govt. Engineering College Thrissur, Bartenhill,Trivandrum)	7	4
2	CPHEEO sponsored	2	1
	Total	9	5

Total no. of Participants trained

2830

Chapter XII

National Pension System Cell

NPS (National Pension System) is a defined contribution based Pension Scheme launched by Government of India with the following objectives

- To provide old age income
- Reasonable market based returns over long run
- Extending old age security coverage to all citizens

It is based on a unique Permanent Retirement Account Number (PRAN) which is allotted to each Subscriber upon joining NPS.

The Government of India in exercise of their executive powers adopted 'National Pension System' (NPS) based on defined contributions in respect of all new entrants to Central Government services, excepting the Armed Forces, with effect from 1st January 2004. Most of the State Governments have since notified a similar pension system for their new entrants. NPS accumulates savings into subscribers PRA while he is working and use the accumulations at retirement to procure a pension for the rest of his life.

The Pension Fund Regulatory & Development Authority Act was passed on 19th September, 2013 and the same was notified on 1st February, 2014. PFRDA is regulating NPS, subscribed by employees of Govt. of India, State Governments and by employees of private institutions/organizations & unorganized sectors.

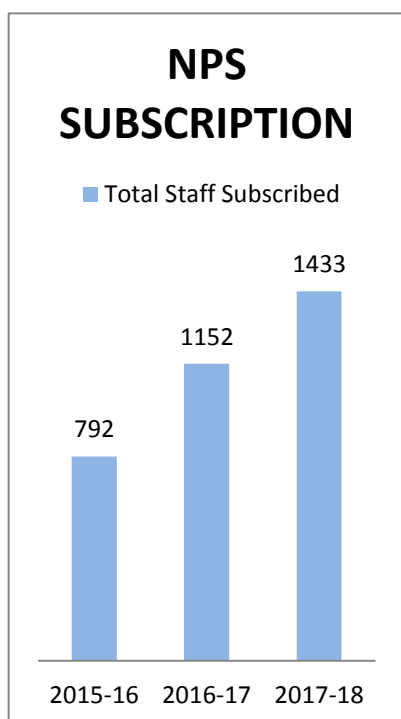
Government of Kerala vide G.O.(P) 20/ 2013/Fin dated 07-01-2013 decided in principle that National Pension system shall be introduced with effect from 01.04.2013 which shall be applicable to all appointments made thereafter.

Vide Office Order No. KWA/JP/E20/O&M/7307/2006 dated 18/04/2015 NPS Cell was constituted in Head office of KWA for the implementation of NPS. In response to the application submitted to the Finance Wing, Government of Kerala for operationalization of NPS in KWA, the NSDL e-Governance Infrastructure Ltd vide Letter No: CT/SS/VH/MT/201531655 dated 7-5-2015 informed that the registration of KWA in the CRA system of NPS is completed. The deduction of NPS subscriptions was effected from the salary of June 2015 and the recovery of subscription for the backlog period were started from salary of August 2015 onwards. The centralised mode of payment is executed in KWA for NPS . All account rendering units of KWA forward the details of deduction of NPS subscriptions done in their offices through the NPS Recovery Schedule(PA 30) to NPS Cell of Head Office for payment. Based on this KWA contribute matching share of subscription. For the year 2017-18 , KWA remitted Rs. 7,19,90,366/- for NPS purpose which includes Rs. 7,07,08,704 /- as regular

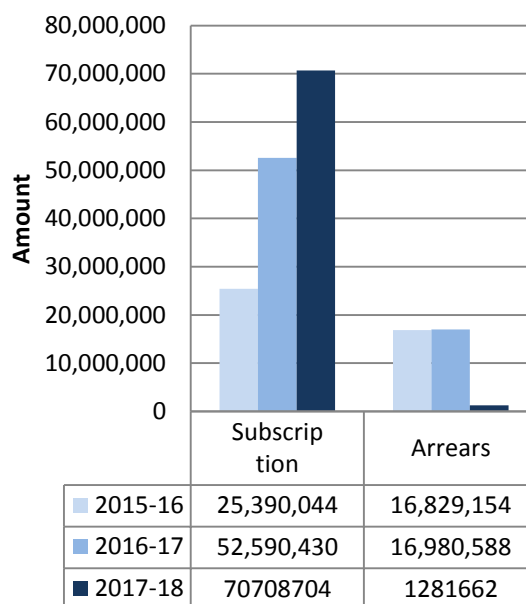
subscription and Rs. 12,81,662 /- as backlog arrears. . For the year 2017-18 - 281 number of new subscribers were registered for NPS from Kerala Water Authority.

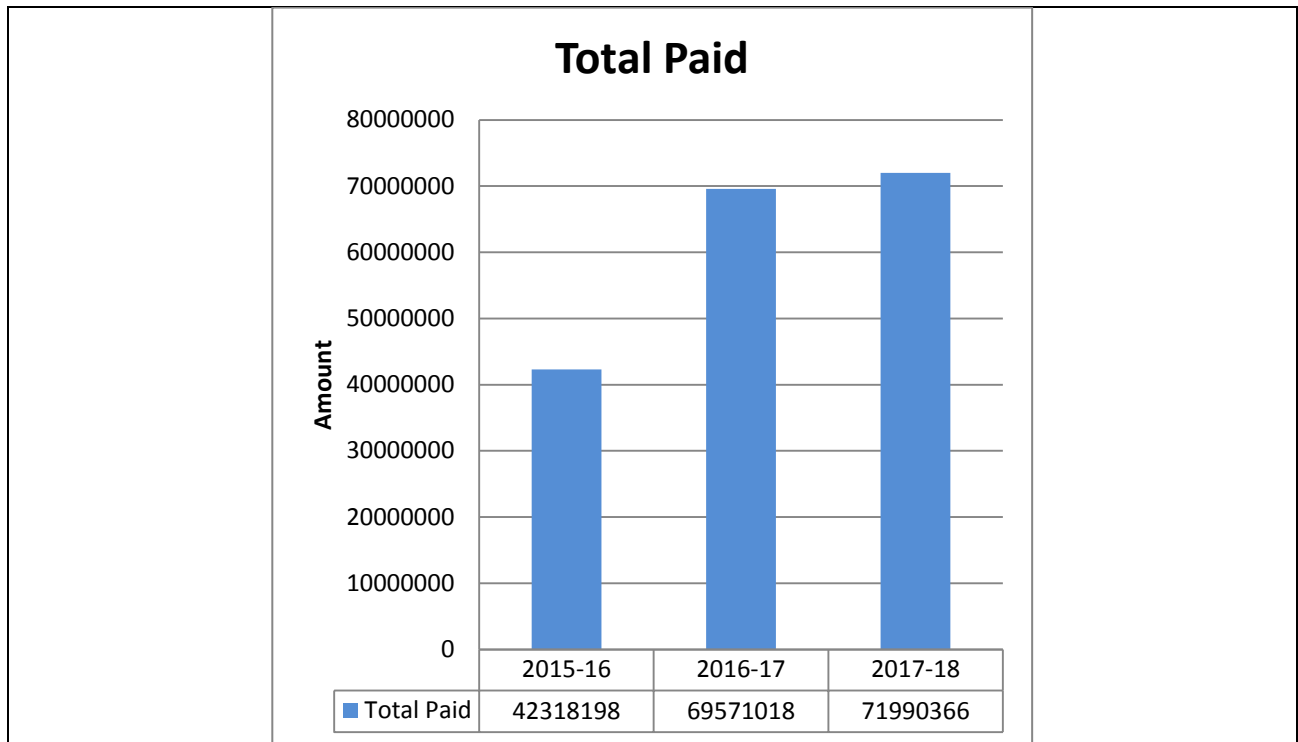
NPS SUBSCRIPTION (STAFF NUMBERS AND PREMIUM AMOUNT)

	2015-16	2016-17	2017-18
Total Staff Subscribed	792	1152	1433
New Staff Added	792	360	281
Amount	Rs. 253,90,044	Rs. 5,25,90,430	70708704
Arrears	Rs. 168,29,154	Rs. 1,69,80,588	1281662
Total Paid	Rs. 423,18,198	Rs. 6,95,71,018	71990366



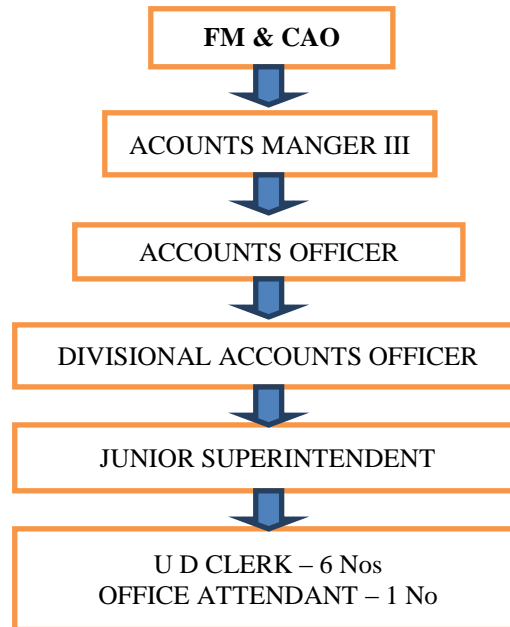
Amount paid - Regular and arrears





Chapter XIII

PENSION DISBURSEMENT CELL (PENSION THROUGH BANK)



Kerala Water Authority started pension payment through the bank in December 1992 with the objective of providing retirement benefits to all the pensioners without approaching the accounts rendering units and to inculcate the habit of saving. Initially, the system of pension being made through the bank was under the control of FM&CAO started with 5 pensioners, who opted for pension through the bank. Pre-printed cheques of Syndicate Bank were used then for disbursement of pension. The cheques with 1st date of coming month (pension) was prepared and was sent to the concerned pensioner by certificate of posting. The operational procedure of pension disbursal through Bank was populated as a booklet and was sent to all divisions inviting options from the pensioners who wish to receive pension by way of Bank disbursement. The number of pensioners who opted for bank pension disbursement increased gradually. From 2002 April 1st M/s. SBI, the then SBT was also included in the bank's and a new system was introduced i.e., transfer of funds was made directly from the bank to the pensioners account. For this purpose, Demand Draft was given branch wise for State Bank and Syndicate Bank. Both SBI & Syndicate banks charged for the demand draft and were debited from the pensioners equally who opted payment of pension through bank. Due to pensioner's complaints, and also there was a case filed against the demand draft charges which was being debited from the pensioners account in which the pensioner won the case. Since SBT has agreed to waive off the charges for DD, SBT alone was allowed for the disbursement of

pension through the Bank and Syndicate Bank was avoided from disbursement of pension. The pension payment being processed through FOXPRO Software. From October 2005 core banking was introduced and the account number of the pensioners was changed to 11 digits and the system continued till 2014.

In May 2014 Centralized Pension Disbursement Cell through the bank was constituted as per the direction of the Managing Director under the control of FM&CAO. After collecting all PPO's from Division offices where the pension payments were being disbursed, with effect from May 2014 the centralised disbursement of pension through bank from Head Office, Pension Disbursement Cell came in to effect. All other modes of payment of pension except money order was stopped and payment being made only from Head office through Bank. Money order commission charges for those who opted for money order above 80 years of age are being paid by KWA.

Number of Pensioners as on 31-03-2018

There are 8579 pensioners as on 31-03-2018. The details are as follows,

Service pensioners – 6480 nos.

Family pensioners - 2091 nos.

Other type pensioners - 8 nos.

Chapter XIV

IMPLEMENTATION OF RIGHT TO INFORMATION ACT-2005

Right To Information Act is the Act which gives the right to all people to know the public information, passed by the great Indian Parliament on 2005. This Act is one of the mile stones in the history of India. This rule was implemented all over India on the same year.

The Kerala Water Authority took initiative to implement the rule on the same year itself. In this regard the Kerala Water Authority published sufficient orders and circulars for perfect and smooth functioning of Right To Information Act. As per this orders seven officers have been deputed as Public Information Officers in Jala Bhavan, the headquarters of Kerala Water Authority. The Deputy Chief Engineers in all Regional Offices, PA to Superintending Engineer in Circle Offices, Technical Assistant to Executive Engineer in Division offices and Assistant Executive Engineer in Sub Division offices respectively are also deputed as Public Information Officers. In the absence of Public Information Officers, the Assistant Public Information Officers will be the responsible person. The Administrative Officer of Regional Offices, the Administrative Assistant of Circle Offices, the Divisional Accounts Officer of Divisional Offices and all Assistant Engineers under the purview of Sub Divisional Offices are deputed as Assistant Public Information Officers.

The complaints raised by the applicants against the information given, those which are not satisfactory or not within stipulated period will be heard and redressed. Hence an Appellate Authority is required and nominated the Chief Engineer (HRD & GL) is nominated in Jala Bhavan, Chief Engineers in all Regions and Chief Engineer, JICA as Appellate Officers.

SUO MOTO DISCLOSURE UNDER SECTION 4(1)(b)
REPORTING YEAR: 2017-18

(Form-1)

Sl.No.	Department	No. of Public Authorities	No. of Public Authorities which published the 17 Manuals under Section 4 (1)(b)	No. of Public Authorities which updated the 17 Manuals during the year	No. of Public Authorities which displayed the 17 Manuals Online
(1)	(2)	(3)	(4)	(5)	(6)
1.	Kerala Water Authority	1	1	0	1

DESIGNATION OF PUBLIC INFORMATION OFFICERS/APPELLATE AUTHORITIES
REPORTING YEAR:2017-18

(Form -II)

Sl.No.	Department	No. of Public Authorities	No. of Public Information Officers Designated	No. of Assistant Public Information Officers Designated	No. of Appellate Authorities Designated
(1)	(2)	(3)	(4)	(5)	(6)
1.	Kerala Water Authority	1	424	340	31

DISPOSAL OF INFORMATION REQUESTS BY PUBLIC INFORMATION OFFICERS
REPORTING YEAR 2017-18

(Form-III)

Name of the Department	No. of Requests pending at the end of Last Year	No. of Requests Received during the Year	Total No. of Requests	No. of Requests Disposed	No. of Requests Rejected	No. of Requests deemed to be Refused under Section 7 (2) Received during the Year	% of Cases Access to information Denied
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Kerala Water Authority	12	3443	3455	3418	31	0	0.90

INFORMATION REQUESTS REJECTED BY PUBLIC INFORMATION OFFICERS
REPORTING YEAR: 2017-18

(Form-IV)

Name of the Department	No. of Requests Rejected	No. of Requests Rejected under Section 8	No. of Requests Rejected under Section 9	No. of Requests Rejected under Section 11	No. of Requests Rejected under Section 24	No. of Requests Rejected under Sections (Fee not remitted as per rule)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Kerala Water Authority	31	1	0	0	0	30

DISPOSAL OF FIRST APPEALS BY DESIGNATED APPELLATE AUTHORITIES
REPORTING YEAR: 2017-18

(For
m-V)

Name of the Department	No. of First Appeals pending with Appellate Authorities on 01.04.2016	No. of First Appeals preferred during the year	No. of First Appeals with Appellate Authorities (2+3)	No. of First Appeals Disposed	No. of First Appeals Rejected	% of First Appeals Rejected	No. of First Appeals pending for more than 45 days
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Kerala Water Authority	3	131	134	133	1	0.75	0

PENALTIES IMPOSED & COLLECTED
REPORTING YEAR: 2017-18

(Form-VI)

Name of the Department	Penalties imposed in previous year pending for collection	Details of Penalties imposed by information Commission under Section 20(1)	Total	Details of Penalties Collected
(1)	(2)	(3)	(4)	(5)
Kerala Water Authority				

DISCIPLINARY ACTION TAKEN AGAINST OFFICERS IN RESPECT OF ADMINISTRATION OF RTI ACT
REPORTING YEAR: 2017-18

(Form-VII)

Name of the Department	Details of Disciplinary Action Recommended by information Commission under Section 20(2)	Details of Disciplinary Action Taken based on Recommendation of Information Commission	Other Disciplinary Actions Taken (other than those Recommended by Information Commission)
Kerala Water Authority	Nil	Nil	Nil

SUMMARY COSTS, FEES & CHARGES COLLECTED BY PUBLIC AUTHORITIES
REPORTING YEAR: 2017-18

(Form-VIII)

Name of the Department	Cost Collected Section 4 (4)	Fee Collected Section 6(1)	Fee Collected Section 7 (1)	Fee Collected Section 7(5)	Other charges collected (Specify)	Total Collection
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Kerala Water Authority	3476.00	10407.00	8130.00	4018.00	1477.00	27508.00

CHAPTER - XV

Implementation of Right to Service Act 2012

The Kerala State Right to Service Act, 2012 came into force on 1st November 2012 as per G.O.(P)No.55/2012/P&ARD. Kerala Water Authority implemented the Right to Service Act 2012 on 08.04.2013 onwards. The Act provides effective, time bound redressal of grievance of citizens, delivery of services to the public and making Government servants liable in case of default. Through the introduction of bill, the Government servants are made answerable in terms of their functions, duties commitments and obligations towards the people.

The bill provides two tier appellate system to redress grievances. The bill underlines the duty of the designated officer who on receipt of an application for service will provide it or reject the application within the time limit, counted from the day the application is received. In case of rejection, the officer should justify it in writing.

Section 3 of the Kerala State Right to Service Act, 2012(18 of 2012) empowers, every departments of the Government, Heads of Departments, Local Self Government Institutions and Statutory Bodies to notify in the Gazette, the services, that will be rendered by each of them along with details of stipulated time limit, Designated Officers, First Appellate Authority and the Second Appellate Authority. The Government have decided to notify the services to be rendered by the Kerala Water Authority and the officers in respect of such services as stipulated in the said section.

In connection with the implementation of Right to Service Act in Kerala Water Authority, the Managing Director issued a notification vide No. KWA/JB/E1/9387/2012 Dt: 08/04/2013 in which the designated officers as First Appellate Authority, Second Appellate Authority, and the stipulated time limit in respect of such services were notified

The details of services rendered by the Authority are as follows.

Sl. No.	Service		Stipulated time limit	Designated Officer	1 st Appellate Authority	2 nd Appellate Authority
1	2		3	4	5	6
1.	Providing Water Connection	Urban Area	15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
		Rural Area	30 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
2.	Sewerage Connection		60 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
3.	Shifting of Domestic Connection		15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
4.	Disconnection of domestic/non domestic connection (on request of consumer)		15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
5.	Reconnection of domestic/non domestic connection		15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
6.	Change of ownership/changing of category of connection		15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
7.	Meter reading/complaint redressal		30 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
8.	Sewerage connection change of ownership		15 days	Assistant Executive Engineer	Executive Engineer	Superintending Engineer
9.	Water sample of private wells quality test (physical and chemical)		10 days	Assistant Executive Engineer	Executive Engineer/ Quality Control Division	Chief Engineer

CHAPTER XVI

COMPLAINT REDRESSAL CENTRE

As part of enhancing customer services, a Complaint Redressal Centre with a toll free number 1800 425 5313 was started functioning in the Head Office, Thiruvananthapuram from 22/3/12 onwards. The complaints/calls related to water supply and drainage from anywhere in Kerala will be attended in this centre. The details of the complaint will be transmitted to the respective Divisions over telephone. A nodal officer was made responsible in each division to attend the complaints and for follow up action of the complaints which are forwarded from the Complaint Redressal Centre. The Technical Assistants of the concerned Divisions are nominated as the nodal officers for attending the complaints. All complaints forwarded from this centre will be entered in a register and action taken are being recorded. The Technical Assistants reports the action taken regarding the complaints which are forwarded to them to the Complaint Redressal Centre in a time bound manner.

The phone numbers to which the complaints are forwarded are listed below:

1. P.H Division, North, Thiruvananthapuram -	0471 2322798	85476 38175
2. P.H Division, South, Thiruvananthapuram -	0471 2321379	85476 38290
3. Head Works Division, Aruvikkara -	0472 2888239	94000 67878
4. W.S Division, Neyyattinkara -	04712223447	85476 38093
5. Sewerage Division, Pattoor -	04712303170	85476 38212
6. W.S Division, Attingal -	04702620574	85476 38355
7. P.H Division, Kollam -	0474 2748857	85476 38530
8. P.H Division, Pathanamthitta -	0468 2222687	85476 38344
9. P.H Division, Alappuzha -	0477 2242372	85476 38221
10. P.H Division, Tiruvalla -	0469 2701267	85476 38241
11. P.H Division, Kottayam -	0481 2563711	85476 38556
12. P.H Division, Kochi -	0484 2360816	85476 38133
13. W.S Division, Kochi -	0484 2394155	85476 38145
14. P.H Division, Aluva -	0484 2626948	85476 38156
15. P.H Division, Muvattupuzha -	0485 2832350	85476 38436

16. P.H Division, Thodupuzha	-	04862 222812	85476 38427
17. P.H Division, Thrissur	-	0487 2333070	85476 38362
18. P.H Division, Irinjalakuda	-	0480 2826608	85476 38374
19. P.H Division, Palakkad	-	0491 2545027	85476 38307
20. P.H Division, Shornur	-	0466 2223264	85476 38315
21. P.H Division, Kozhikode	-	0495 2370095	85476 38211
22. P.H Division, Vadakara	-	0496 2512474	85476 38060
23. P.H Division, Malappuram	-	0483 2734891	85476 38171
24. P.H Division, Edappal	-	0494 2680215	85476 38410
25. P.H Division, Sulthan Bathery	-	04936 220422	85476 38495
26. P.H Division, Kannur	-	0497 2706837	85476 38273
27. P.H Division, Kasaragod	-	04994 256411	85476 38250

ABBREVIATIONS

1.	ADB	Asian Development Bank
2.	ARP	Accelerated Rural Project.
3.	ARWSS	Accelerated Rural Water Supply Scheme.
4.	AS	Administrative Sanction
5.	ASAP	Additional Skill Acquisition Programme
6.	AUWSS	Accelerated Urban Water Supply Scheme.
7.	CPHEEO	Centre for Public Health Engineering & Environmental Organization
8.	CARWSS	Centrally Sponsored Accelerated Rural Water Supply Schemes
9.	CSC	Common Service Center
10.	CW	Clear Water
11.	CWEd	Center For Water Education
12.	CWPM	Clear Water Pumping Main
13.	CWPS	Clear Water Pumping Station
14.	CWSS	Comprehensive Water Supply Scheme.
15.	DER	Detailed Engineering Report.
16.	DRW	Drought Relief Work.
17.	DBA	Data Base Administrator.
18.	EABACUS	Enhanced Advanced Billing, Accounting & Collection Utility System
19.	GIS	Geographic Information System
20.	GoI	Government of India
21.	HUDCO	Housing & Urban Development Corporation.
22.	IMIS	Integrated Management Information System.
23.	IPD	Investigation, Planning and Design.
24.	JICA	Japan International Co-operation Agency
25.	JBIC	Japan Bank for International Cooperation
26.	JNNURM	Jawaharlal Nehru National Urban Renewal Mission
27.	KIIFB	Kerala Infrastructure Investment Fund Board
28.	KWSP	Kerala Water Supply Project
29.	KRWSA	Kerala Rural Water Supply and Sanitation Agency
30.	KSIDC	Kerala State Industrial Development Corporation
31.	KSUDP	Kerala Sustainable Urban Development Project
32.	LAC	Legislative Assembly Constituency
33.	LAC ADF	Legislative Assembly Constituency Asset Development Fund
34.	LCS	Low Cost Sanitation.
35.	LIC	Life Insurance Corporation
36.	LSGD	Local Self Government Department
37.	MARCH	Monitoring Accounting & Reporting By Centralized HR System
38.	MLD	Million Litres per Day
39.	NABARD	National Bank for Agriculture and Rural Development
40.	NC / PC	Not Covered / Partially Covered
41.	NeGP	National e-Governance Plan
42.	NRDWP	National Rural Drinking Water Programme
43.	NIT	Notice Inviting Tender
44.	NPS	National Pension System
45.	O&M	Operations and Maintenance
46.	OD	Overdraft

47.	OHSR	Over Head Service Reservoirs
48.	ORWS	Other Rural Water Supply.
49.	PER	Preliminary Engineering Report.
50.	PHD	Public Health Division
51.	PMU	Project Management Unit.
52.	PPD	Project Planning and Development
53.	PS&GL	Personal & General.
54.	PRA	Permanent Retirement Account
55.	PFRDA	Pension Fund Regulatory and Development Authority
56.	PURA	Provision of Urban Amenities to Rural Area
57.	PVC	Polyvinyl chloride
58.	RCC	Reinforced Cement Concrete
59.	RIDF	Rural Infrastructure Development Fund
60.	RW	Raw Water
61.	RWPM	Raw Water Pumping Main
62.	RWSS	Rural Water Supply Scheme
63.	SAAP	State Annual Action Plan
64.	SAARK	Special Assistance Against Recession in Kerala
65.	SAGY	Saansad Adarsh Gram Yojana
66.	S&P	Store and Purchase
67.	SCP	Special Component Plan.
68.	SDC	Sector Development Cell
69.	SLSSC	State Level Schemes Sanctioning. Committee
70.	SSDG	State Service Delivery Gateway
71.	STP	Sewage Treatment Plant
72.	TAC	Training Advisory Committee
73.	TCC	Total Cash Compensation
74.	TSP	Tribal Sub Plan
75.	TSS	Trivandrum Sewerage Scheme
76.	TW	Treated Water
77.	TWSS	Trivandrum Water Supply Scheme
78.	UIDSSMT	Urban Infrastructure Development Scheme for Small and Medium Towns
79.	ULB	Urbal Local Bodies
80.	UWSS	Urban Water Supply Scheme
81.	WASCON	Water And Sanitation Consultancy Wing
82.	WB	World Bank.
83.	WBP	World Bank Project.
84.	WGDP	Western Ghat Development Programme.
85.	WS	Water Supply
86.	WSS	Water Supply Schemes.
87.	WTP	Water Treatment Plan