



# **KERALA WATER AUTHORITY**

## **ANNUAL ADMINISTRATIVE REPORT 2019-20**



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## **CHAPTER -I**

### **KERALA WATER AUTHORITY – A PROFILE**

- 1.1 The Kerala Water Authority (KWA) was constituted by the Government of Kerala through the Kerala Water Supply and Waste Water Ordinance 1984 converting the then existing Public Health Engineering Department. The ordinance was replaced by the Kerala Water Supply and Sewerage Act 1986 (Act 14 of 1986) and the organization was deemed to have come into force on the 1st day of March 1984. The Act provides for the establishment of an autonomous Authority for the development and regulation of water supply and wastewater collection and disposal in the State of Kerala and for matters connected therewith.
- 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 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.

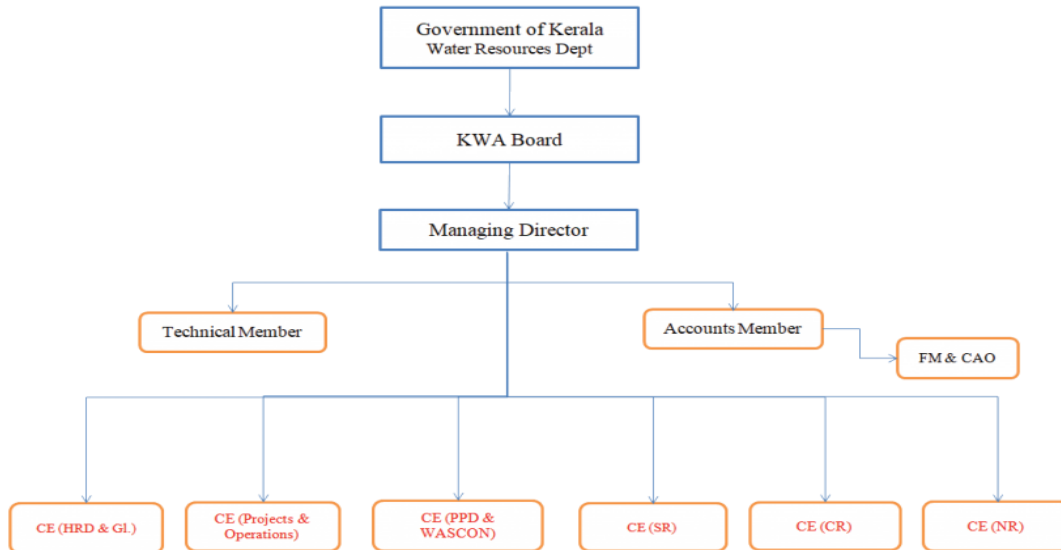
- 1 Chairman – Appointed by the Government.
- 2 Managing Director – Appointed by the Government.
- 3 Secretary to Government, Water Resources Department, Government of Kerala.
- 4 Secretary to Government, Finance Department, Government of Kerala.
- 5 Secretary to Government, Local Administration Department, 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

## 2.2. THE BOARD OF DIRECTORS

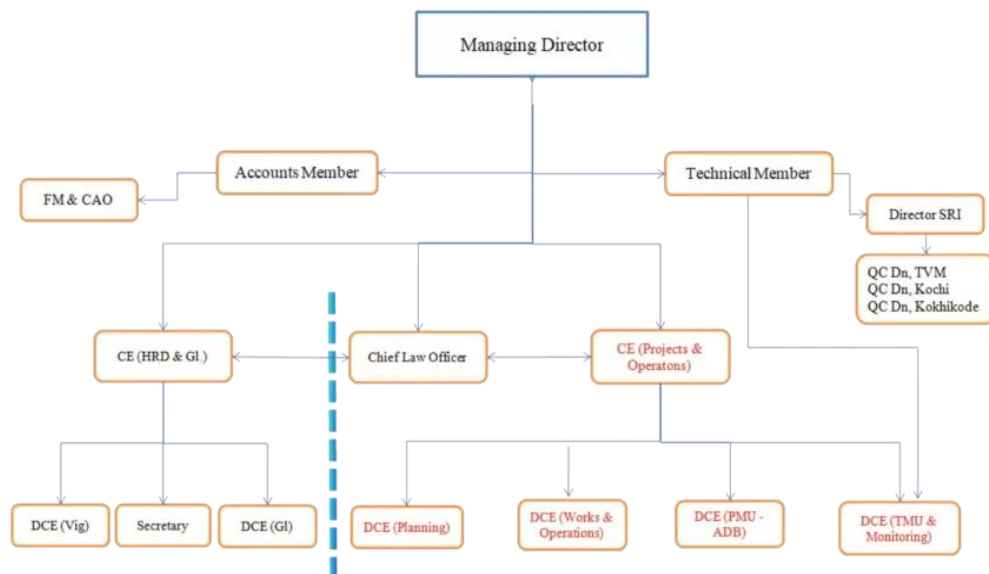
BOARD OF DIRECTORS	NAME	TERM
Chairman KWA & Additional Chief Secretary, Water Resources Department	Dr. Vishwas Mehta IAS	01/04/2019 to Present
Secretary, Water Resources Department (Ex-Officio)	Dr. B. Ashok IAS	26/06/2019 to Present
Managing Director, Kerala Water Authority	Dr. A. Kowsigan IAS	01/04/2019 to 30/11/2019
	Dr. B. Ashok IAS	01/12/2019 to Present
Joint Managing Director, Kerala Water Authority	Sri. Venkatesapathy S. IAS	26/02/2020 to Present
Secretary to Government Finance (Expenditure) (Ex-officio)	Smt. Sharmila Mary Joseph IAS	01/04/2019 to 13/05/2019
Additional Secretary, Finance Department	Smt. S.V.Kala	14/05/2019 to Present
Additional Chief Secretary, Local Self Government,(Ex-Officio)	Sri. T K Jose IAS	01/04/2019 to 14/02/2020
	Smt. Sarada Muraleedharan IAS	14/02/2020 to Present
Executive Director (KRWSA), (Ex-officio)	Sri. K Gopala Krishnan IAS	01/04/2019 to 28/06/2019
	Dr. A. Kowsigan IAS	28/06/2019 to 25/09/2019
	Smt. Joshi Mrunmai Shashank IAS	25/09/2019 to Present
Non-Official Members	Sri.Chettachal Sahadevan	05/04/2017 to Present
	Sri.T V Balan	05/04/2017 to Present
	Sri.Alex Kannamala	05/04/2017 to Present
	Sri.Murugadas	05/04/2017 to Present
Technical Member, Kerala Water Authority	Sri. T Raveendran	
Accounts Member, Kerala Water Authority	Vacant	

## CHAPTER –III ORGANIZATIONAL STRUCTURE

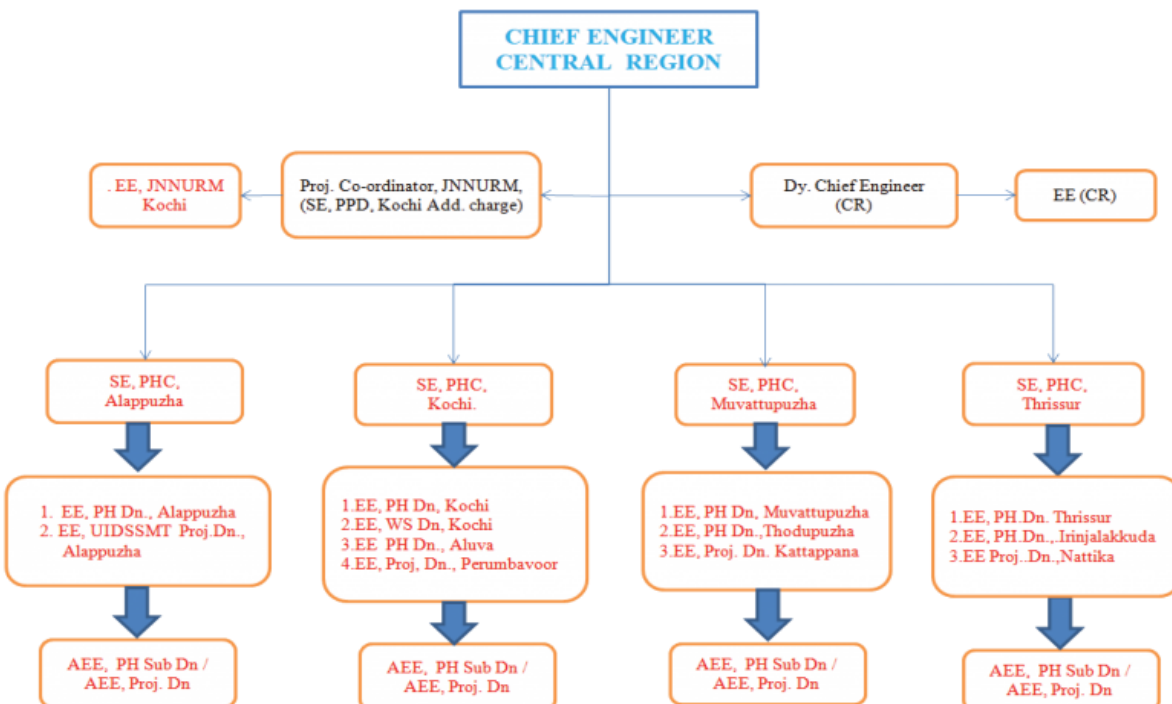
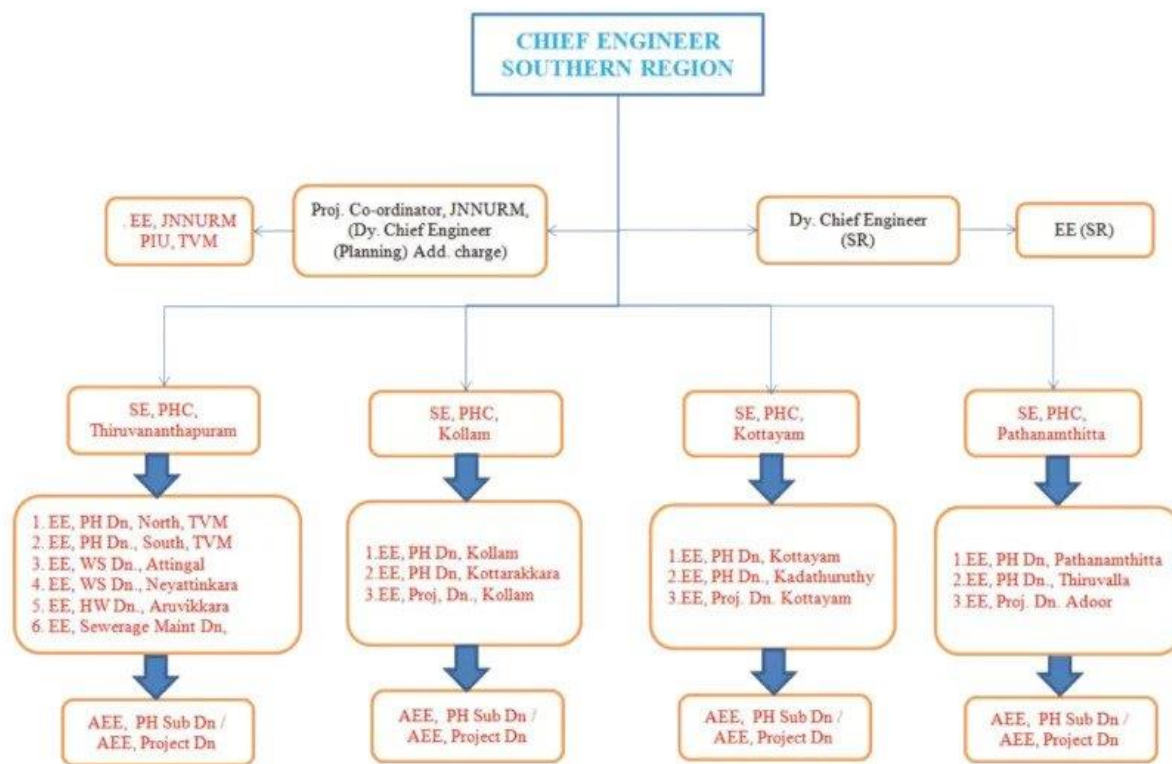
### Basic Structure

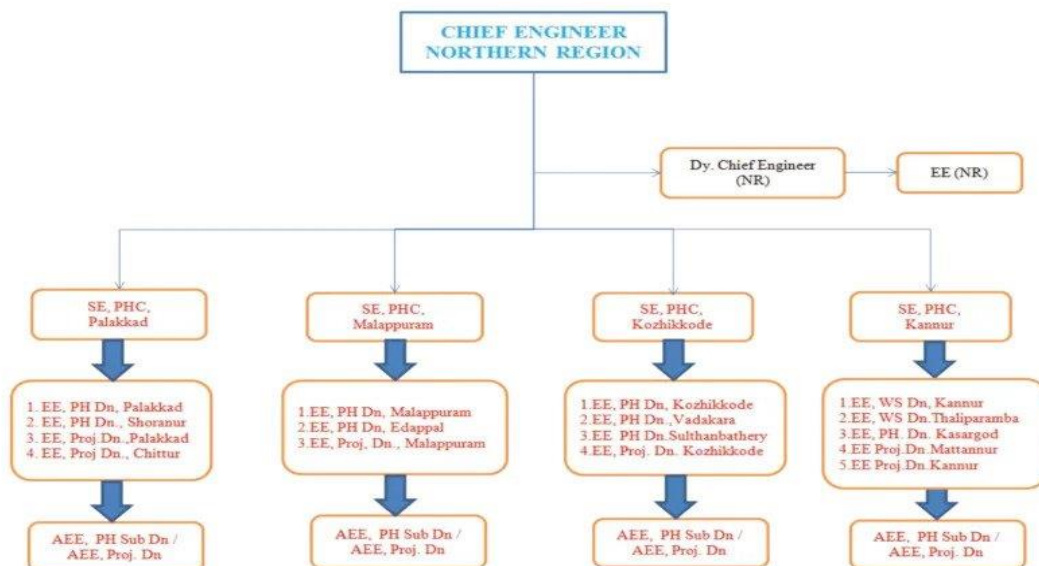


### Head Office









### 3.1. Organisational Structure

The KWA has its headquarters at Jalabhavan, Vellayambalam, Thiruvananthapuram. It has 4 Chief Engineer offices, 17 circle offices, 3 PPD Regional Offices, 49 Division offices, 136 Sub Division offices and 293 Section offices spread across Kerala. The major functional units are:

- Operation & Maintenance
- Projects
- Project Planning and Development
- Quality Control
- Consultancy (WASCON)

The KWA has elaborate water quality control setup with a State Referral Institute at Kochi and has 14 district labs and 33 sub divisional labs.

In head office the operations of existing schemes including O&M, Revenue Collection, Non Revenue Water loss, etc. are also been monitored in addition to the on - going schemes progress. By close monitoring and reviews, many schemes could also be commissioned in the financial year increasing the coverage and benefitting more population in the state. The objective is improved customer satisfaction through better service delivery.

Although the number of connections, coverage, schemes has increased manifold times, the staff strength and organizational pattern has not changed much. To give more quality output, it is proposed to re-structure the organization by optimizing the manpower and functions. However, taking into consideration the workload and magnitude of projects being executed by KWA, the sanctioned strength of staff has to be increased.

## **3.2. Major units of KWA**

### **3.2.1. 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.

### **3.2.2. 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.

### **3.2.3. 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.

### **3.2.4. 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.

### **3.2.5. Chief Engineer Offices**

1. Chief Engineer (Southern Region)
2. Chief Engineer (Central Region)
3. Chief Engineer (Northern Region)
4. 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.

### **3.2.6. Circle Offices**

There are 17 Circle Offices. The Circle offices are headed by Superintending Engineers.

### **3.2.7. Division offices.**

The Divisions are controlled by Executive Engineers. Depending on the nature of work the Divisions are primarily classified as O&M (PH/WS) Divisions, Project Divisions and Quality Control Division.

These divisions are the main executive unit for the execution of O&M of water supply across the State. The Executive Engineer is responsible for the proper execution of all O & M works in his Division and also in guiding and controlling the subordinate officers in regard to operation and maintenance of all water supply schemes. He has also powers of sanctioning estimates and entering into contracts within the limits of powers delegated to him. As disbursing officer of the Department, all payments for works, supplies and services shall be made by the Executive Engineer in the Division or through the Sub Divisions and Sections under him. The Executive Engineer shall render the prescribed accounts to the FM&CAO. The Division Office shall have three branches, viz. Technical Branch, Accounts Branch and Establishment Branch. The Technical Branch shall be under a Technical

Assistant (Asst Executive Engineer) Accounts Branch under a Divisional Accountant and Establishment Branch under a Junior Superintendent. Revenue Officers are also posted in certain Divisions to look after the revenue related matters.

EE is also the liaison officer for dealing department matters with other departments and with Elected Representatives. There are 29 regular divisions looking after operation and maintenance of water supply and one division looking after operation and maintenance of sewerage system in KWA

When the division is authorized the charge of Head works, with a number of major water treatment plants having important transmission mains, particularly a very large population covering cities, municipalities, corporation, the division is called Head Works Division. The control of overall quality of water produced, arranging various maintenance works of TP's and its components is with the Head Works Division.

### **Project Divisions**

KWA has 12 Project Divisions across the State exclusively for executing Capital works amounting to more than 5 Cr. The Division is entrusted with the task of envisaging a project, preparation of engineering report, preparing tender documents and executing the project and preparation of contractors' bill of projects related to water supply and sewerage. After trial run, commissioning and rectification of defects by monitoring the trial run, the assets are handed over to the O&M Divisions.

### **Quality Control Divisions**

Other than regular divisions and project divisions, KWA has 3 quality control divisions, one at Thiruvananthapuram, Kochi and Kozhikode, with Director SRI(SE) as its head. The quality control divisions control the activities of QC Sub Division offices and QC section offices, including all regional labs. The QC Division monitor the quality of water produced in WTP's and other minor WSS at frequent pre determined intervals In addition to the inspection of schemes and collection of water samples they also check the quality of chemicals supplied to KWA like Alum, Lime and Bleaching powder.

### **3.2.8. Sub Division Offices**

The work of sections is controlled by a sub-division under the control of an Assistant Executive Engineer who is vested with powers, within his delegation, to sanction estimates, enter into contracts and make payments. The Assistant Executive Engineer has also to guide subordinate officers in the matter of operation and maintenance of schemes and take all steps necessary to ensure that quality water supply is ensured to the public. He has to maintain and render accounts as prescribed in the rules and orders in force. The sub division holds the control of all section offices under it. It is in the middle position between the Division and Section Offices, with control of revenue collection and giving connection like that of Non domestic, Industrial etc. Sub Division Office is headed by Assistant Executive Engineer, assisted by JS/HC and subordinate staff in Office and has control of section offices headed by Assistant Engineers. Sub Division offices collect various fees related to water connection and that like of meter replacement, ownership change, alterations in water connection etc. sub division office looks into the activities of section offices and issue guidance for its proper function time to time. The supervision of works under section offices also comes under the purview, including quality of water distributed.

### **3.2.9. Section Offices**

The lowest executive unit of the organizational set up is the section office under the control of an Assistant Engineer whose jurisdiction may be territorial or functional. For carrying out, executive and supervisory functions the section will have the required number of Overseers, and other staff like Drivers, Operators, etc. For assisting him in the ministerial work there will be a clerk attached to his office. Where the section is under the control of departmental execution of works, required staff shall be deployed. In addition to executive functions, the Assistant Engineer has to maintain the primary records of all transactions relating to works, supplies and services under his control and renders accounts to his superior authorities as per rules.

Section offices are the backbone of KWA. All activities start from here and all works and other projects/proposals etc rise from section offices. Section office directly looks into the O and M of all schemes under its control, including execution of works, implementation of

water connections, taking meter readings, entering of meter readings, issue of water bill, raise work bill, raise reports, and estimates. Any short falls in section offices will be reflected in the performance of Authority itself. Assistant Engineer heads the section office with supporting administrative and technical staff. As all activities right from revenue to work starts here, it is the most important ring in the chain. Consumer complaints will be addressed primarily from section offices and grievances if any only will be taken up at higher offices.

Quality control sections collect sample from sources, distribution system, sumps, OHSR and WTP's as per preapproved frequencies and report to AEE, QC Sub Division and EE, QC Divisions concerned. Assistant Engineer heads the section and also controls activities directly in district labs under his control.

### **3.2.10. Activities of Blue Brigades**

The water supply system of Kerala Water Authority is always through pressure pipe system. Although the pipeline system is designed to withstand a certain pressure, these water supply pipes may leak due to high pressure inside the pipe as well as external pressures and vibrations due to movement of heavily loaded vehicles. As it is a pressure operated system, if a small crack is not repaired, additional water loss will occur and the amount of non-revenue water will increase. It is therefore important to ensure that pipeline repairs are carried out in a timely manner. If these are not done from time to time, even in places where the annual contract is in place, an alternative system needs to be put in place to attend the leaks immediately. In addition, valve adjustments are required to control and regulate the water supply in different areas, which is an issue that needs to be addressed very carefully, and defects in this can seriously affect the drinking water supply in an area.

If the two issues mentioned above i.e. time bound pipe maintenance and valve control are handled properly, water loss will be avoided and smooth drinking water supply will be possible. The "Blue Brigade" system is working as a pilot project in some key locations to achieve this goal. The system includes a maintenance van / jeep, fitter, plumber, worker, repair tools, pipes, valves and specials. Depending on the situation in the area, the system



operates on a one-shift / two-shift / three-shift schedule. In the event that the Running contractor is not attending the leakages in a timely manner, repairs will be carried out by the Blue Brigade. Currently Blue Brigade is operating in Thiruvananthapuram, Kollam, Kottayam, Wayanad, Kozhikode and Kannur districts.

#### **3.2.11. 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.

#### **3.2.12. JICCA Assisted Kerala Water Supply Project**

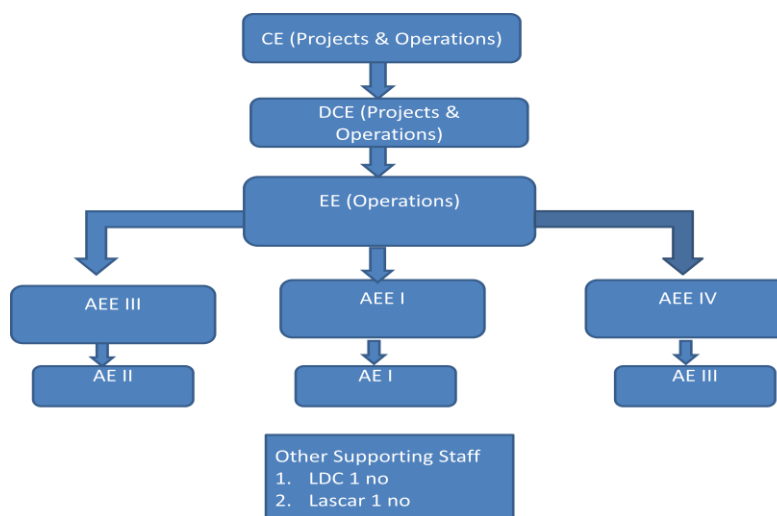
The JICCA Assisted Kerala Water Supply Project headed by a Chief Engineer is for implementation of five major water supply schemes assisted by Japan International Co-operation Agency. Its function is to augment and rehabilitate water supply systems of two urban regions viz. Thiruvananthapuram and Kozhikode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

#### **3.2.13. Project Management Unit (PMU)**

KWA is implementing the Kerala Urban Water Supply Improvement projects with the loan assistance from the ADB for 24 x 7 water supply system in the 3 major cities viz, Thiruvananthapuram, Kochi and Kozhikode. The ADB Consultation Mission has emphasised the need of Establishing a Project Management Unit (PMU) and it was agreed to establish the same immediately. As per the KWA Board Resolution No. 10725 Dated: 27/07/2018 resolved to approve the proposal for converting the existing JICA project office as PMU for ADB project and also to deploy the existing staff in the JICA Project Office as PMU for ADB project. The PMU is functioning as separate wing under the DCE.



## Operations and Maintenance



Operation and maintenance refers to all of the activities needed to run a water supply and Sewerage scheme, except for the construction of new facilities. The overall aim of operation and maintenance is to ensure efficiency, effectiveness and sustainability of water supply and Sewerage Schemes. The two activities of “operation” and “maintenance” are very different in nature. Operation refers to the routine activities and procedures that are implemented to ensure that the water supply system is working efficiently. The activities that contribute to the operation of a water utility are undertaken by technicians and engineers who have responsibility for controlling the functions of the system. Maintenance, on the other hand, are to do with the technical activities, planned or reactive, which are needed to keep the system working.

Operation and maintenance has been neglected in the past, or been discussed and introduced only after a project was completed. Realizing the fact that this neglect or delay in applying proper operation and maintenance has affected the quality of service offered of the services to a great extent, Operations Unit has been formed in HO to monitor the O&M of water supply and sewerage services and to formulate appropriate policies and operating guidelines as and when required. the importance of O&M has gained considerable visibility

ever since the formation of Operations Unit. Some of the main activities carried out by Operations Unit are as follows.

- Monitoring of Operations and Maintenance expenditure
- Tracking utilization and wages of employees through Software
- Non-Revenue Water Management activities
- Emergency works related to Drought / Flood and special festivals like Sabarimala pilgrimage, Attukal Ponkala.
- Monitoring of complaint Redressal system (1916, Janamithra, Aqualoom etc.)
- Suggest remedial measures to be taken in case of emergency, quality issues etc
- Innovative and Pilot projects related to technological improvements in O&M of water supply and sewerage systems. rations &

#### **4.1. Water Supply Coverage**

There are 1020 water supply schemes in operation as on 31.8.2020, benefitting a population of 2.09 crore. The average per capita availability of piped water is 84.76 litres per day. However, the lpcd is varying in different habitations in all the districts.

During the financial year 2019-20, 27 schemes were commissioned thereby increasing coverage and the population benefitted. Many new projects were sanctioned under KIIFB, State plan, RKI and NABARD to cover the uncovered areas. KWA distributes water through House Service Connections (HSC) and street taps. As on 31.8.20, from the existing KWA schemes, 58.42% population of Kerala has been covered with piped water supply – 54.11% in rural sector and 75.60% in urban. KWA has given 24,88,361 Domestic connections, 1,86,567 Non domestic connections and 2177 Industrial connections in addition to 1,98,603 street taps as on 31.8.20.

As part of implementation of Jal Jeevan Mission, it is intended to have more Functional households tap connections (FHTC) in the rural sector. KWA aims to cover 100% population in the rural sector with FHTCs by 2024.

#### **4.2. Sewerage**

The coverage of sewerage in the state is negligible. Thiruvananthapuram city has about 602.5 Km drainage coverage and for Ernakulam it was 28 Kms. Although sewerage projects

were taken up in Kollam and Kozhikkode under KSUDP, both could not be implemented due to public protest, non – availability of land etc. In Guruvayoor in Trichur District, it is expected that the sewerage scheme will be commissioned in this year. The need for more focused attention in sewerage sector is essential. Hence for the establishment of sewerage system for sustainable development, a Sewerage Vertical was formed on 7/7/2020 for preparing projects reports for establishing sewerage system throughout Kerala utilizing existing officers of PPD Wing of KWA. The fund required, public protest against sewage plants / pumphouses, delay in getting land, sanctions for road cutting etc are some issues that has to be looked into for taking up sewerage projects. Many projects are in progress in Thiruvananthapuram City under AMRUT. Wastewater 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. The total budget allocation for this head in the financial year 2019-20 was Rs.950 lakhs. Thiruvananthapuram Sewerage Division maintains the sewerage network of Thiruvananthapuram Corporation in addition to the maintenance work. In Guruvayoor in Trichur District, it is expected that the sewerage scheme will commission in this financial year itself. During 2019-20, 914m of new sewer pipe lines were laid and 362 manholes were constructed/raised. The total expenditure for the financial 2019-20 year was Rs.28.52 lakhs.

### 4.3. Capital Works

Currently the KWA undertakes projects under various heads. During the financial year 2019-20, 27 projects were commissioned and thereby increasing the coverage and population benefitted with safe drinking water. New projects have been sanctioned under KIIFB, RKI, in addition to projects being taken up under State plan and NABARD. During the financial year 2019-20 no new projects were sanctioned under NRDWP/JJM & AMRUT.

The main heads sanctioned under State Plan and the budget outlay in each head in 2019-20 is listed below.

SI No	Scheme Code	Scheme Name	Outlay (Rs. in Lakh)
1	SWS 001	Survey and investigation-XX-2215-01-190- 99(1)	200
2	SWS 028	NABARD Assisted Rural Water Supply Schemes Rural Infrastructure Development Fund-XX-4215-01-102-98(1)	8000
3	SWS 043	Manufacturing units for bottled water-XX-2215-01-190-96	500

4	SWS 063 (1)	ACCELERATED RURAL WATER SUPPLY SCHEME (50 % CSS)-XX-4215- 01-102-93	10000
5	SWS 072	Renovation of Existing Civil Structures owned by KWA-XX-2215-01-190-92	500
6	SWS 124	INNOVATIVE TECHNOLOGIES AND MODERN MANAGEMENT PRACTICES- XX-2215- 01-101-97 (1)	100
7	SWS 125	HUMAN RESOURCE DEVELOPMENT, RESEARCH & DEVELOPMENT AND QUALITY CONTROL-XX-4215-01-190-99	200
8	SWS 126	SEWERAGE SCHEMES OF KERALA WATER AUTHORITY-XX-4215-02-190-99	950
9	SWS 127	REHABILITATION/IMPROVEMENT WORKS OF URBAN WATER SUPPLY SCHEME-XX-4215-01-101-97	10000
10	SWS 128	RURAL WATER SUPPLY SCHEMES-XX- 4215-01- 102-97	13000
11	SWS 129	WATER SUPPLY SCHEME TO SPECIFIED INSTITUTIONS/LOCATIONS- XX-4215-01-190-98	200
12	SWS 131	OPTIMISATION OF PRODUCTION AND TRANSMISSION-XX-4215-01-190-97	10000
13	SWS 132	Kerala Water Supply Project, JICA (One-time sustenance support under the state plan)- XX-4215-01-190-96	7500
14	SWS 133	MODERNISATION OF ARUVIKKARA PUMPING STATION-XX-4215-01-101-96	1.00
15	SWS 135	Drinking water - Drought mitigation-XX- 2215-01- 800-47	3000
16	SWS 137	COMPLETION OF ON-GOING NATIONAL RURAL DRINKING WATER (NRDWP) PROGRAMME-XX- 4215-01- 102-95	5000
17	SWS 138	SOURCE IMPROVEMENT AND WATER CONSERVATION-XX-4215-01-800-92	400
18	SWS 142	ENTERPRISE RESOURCE PLANNING (ERP), E- GOVERNANCE, GIS AND INFORMATION MANAGEMENT-XX- 2215-01-190-87	500
		<b>GRAND TOTAL</b>	<b>70051</b>

**CENTRALLY SPONSORED SCHEMES (NRDWP )**

1A	SWS 063	ACCELERATED RURAL WATER SUPPLY SCHEME (50 % CSS)- STATE SHARE	20000
1B	SWS 063	ACCELERATED RURAL WATER SUPPLY SCHEME (50 % CSS)- CENTRAL SHARE	20000
	<b>TOTAL</b>	ACCELERATED RURAL WATER SUPPLY SCHEME (50 % CSS)-XX-2215-01-190-99- (18)	<b>40000</b>

A summary of projects being executed / works undertaken in the various above heads are given below.

**4.3.1. State Plan Schemes.**

Under State Plan an amount of Rs.49551 lakhs was provided as budget outlay during 2019-20 under various heads. For Centrally sponsored Schemes the total outlay was Rs.400 crores with 50% sharing of Rs. 200 crores each by State and Central. The expenditure incurred and booked in plan space in 2019-20 does not reflect the actual performance as funds were not released by the Government for making payment of pending bills. As on 31.3.20, there were pending bills amounting to Rs.468.52 crores in various heads. For GoI Schemes, (50% CSS NRDWP) 60.87% fund has been utilised.

**4.3.2. Survey and investigation**

The aim of KWA is to supply water to all parts of Kerala. For this detailed surveys are to be conducted for preparing the shelf of projects. In the financial year 2019-20 an amount of Rs.200 lakhs has been allotted under this subhead for preparation of detailed project reports. During 2019-20, 21 DER / PER were prepared and a total expenditure of Rs.132.8 lakhs has been booked.

**4.3.3. NABARD Assisted Rural Water Supply Schemes Rural Infrastructure Development Fund**

With the loan assistance from NABARD, KWA implement water supply schemes in the rural areas of Kerala. The summary of schemes sanctioned under various ongoing Tranches (XX to XXV) is shown in the table below.

Year of Sanction	Name of Tranche	No. of Schemes	No. of completed schemes / dropped	Total Project Cost (Crore)
2015	XX	9	6	93.39
2016	XXII	6	1	57.26
2017	XXIII	3	0	85.55
*2018	XXIV	4	0	165.52
2019	XXV	3	0	75.57
<b>Total</b>		<b>25</b>	<b>7</b>	<b>477.29</b>

The outlay for 2019-20 was Rs.80 crores. Out of the total 25 projects sanctioned, only 3 projects are completed and 4 projects are dropped. It is expected that 9 projects will be commissioned in this financial year (Balance work of tranche XX and XXII).

Some important works such as WSS Konni Medical College in Pathanamthitta District, Comprehensive Water Supply Scheme (CWSS) to Agali & adjoining Panchayats in Palakkad, WSS to Seethathode Pt. & Nilakkal Plappally area in Perunad Panchayat etc. were sanctioned under NABARD. WSS to Poovar Pts., WSS to Kulakada and WSS to Vithura Tholicode are the three major sanctioned schemes during the last year under Tranche XXV.

#### **4.3.4. Manufacturing units for bottled water**

The aim of this project is to set up the bottled water plant at Thiruvananthapuram for providing good quality packaged/ bottled water through KWA at reasonable price to public. The total budget allocation for this head in the financial year 2019-20 was Rs.500 lakhs. The civil and mechanical works are completed. The bottled water plant has been handed over to KIIDC. The total expenditure for the financial 2019-20 year was Rs.133.12 lakhs.

#### **4.3.5. Renovation of Existing Civil Structures owned by KWA**

The major aim of this head is to renovate the structures which in dilapidated condition due to lack of timely repair, protection and renovation. Annual maintenance of various civil structures like office buildings, treatment plants, intake, water tanks, pump houses staff quarters etc are not being done for the past several years throughout the State due to lack of sufficient funds. So the maintenance of the civil structures is proposed to be done in a phased manner for protecting the assets created and to improve the quality of service. The total budget allocation for this head in the financial year 2019-20 was Rs.500 lakhs. With this budget allocation, 48 works including maintenance of some office buildings, guest houses, tanks, staff quarters, pump houses etc located in various districts has been completed. No expenditure made for the financial 2019-20 year.

#### **4.3.6. Innovative technologies and modern management practices**

The major aim of this head is to improve the services delivery and quality by adoption of new technologies and modern management practices. Some issues which cannot be solved or optimized can be resolved or improved by practicing innovative ideas. For example, water treatment units with adopting appropriate technology could solve problems like salinity, iron, fluoride, organic pollution. By installation of automated networks installing flow meters, smart meters etc. action for reduction in Non Revenue Water (NRW) could be taken up. The total budget allocation for this head in the financial year 2019-20 was Rs.100 lakhs. With the works sanctioned under this head. 2 No. of works which include the installation of solar panels in the roof top of KWA building has been completed. 2 No. of works

include the installation of Bulk flow meter. No expenditure made for the financial 2019-20 year.

#### **4.3.7. Rehabilitation / Improvement works of urban water supply scheme**

The major aim of this head is to repair/ replacement of pump sets or connected accessories, replacement of worn out and aged pipelines including pumping mains, gravity mains, distribution lines etc and execute important works in urban schemes. Also under this head it is targeted to complete all ongoing UWSS taken up under SAARK. To have 100% coverage in urban areas more funds need to be allocated in this head for taking up new projects. The total budget allocation for this head in the financial year 2019-20 was Rs.10000 lakhs. In 2019-20 one No. of major urban scheme completed namely CWSS to Chittoor-Thathamangalam Municipality and Vadavannoor panchayath in Palakkad Dist. (Green Book), 3 No. of works / improvements to urban water supply schemes are also completed. The total expenditure for the financial 2019-20 year made with the fund available was Rs.295.96 lakhs.

#### **4.3.8. Rural Water Supply Schemes**

At present many Grama Panchaythas still do not have treated water supply or ongoing proposal at present. Only about 34% of rural households are having piped water supply presently. More emphasis has given in this sector with the launch of Jal Jeevan Mission which aims to provide piped water supply to all households by 2024. Completion of ongoing rural schemes is also proposed under this head. An amount of Rs.13000 lakhs was provided during 2019-20. During 2019-20, 11 No. of schemes were completed. One major scheme namely ARWSS to Kumarakom/Thiruvappu in Kottayam Dist. and 10 No. of minor work for improvement of water supply to rural population has been completed. The total expenditure made with allotted fund for the financial year 2019-20 was Rs.1985.89 lakh.

#### **4.3.9. Water Supply Scheme to Specified institutions/locations**

This scheme is intended for providing uninterrupted water supply to some Specified Institutions / locations. This is for ensuring uninterrupted water supply to Institutions such as medical colleges by improving the water supply schemes and also to provide sufficient quantity of drinking water to pilgrims to visiting centers such as Sabarimala etc. An amount of Rs.200 lakhs has been provided during 2019-20. During 2019-20, 5 No. of schemes for supplying water to Govt. hospitals, Medical colleges and other Govt. institutions were completed.

#### **4.3.10. Modernization of Aruvikkara pumping station**

The major aim of this head is to modernize the old schemes functioning according to traditional methods and to improve water supply and reduce power charges to KWA. Modernization of Aruvikkara pumping station taken up under this head is on progress and 70% physical progress has been made. The budget allocation for the



financial year 2019-20 is Rs.1 lakh and no expenditure made for the year 2019- 20.

#### **4.3.11. Optimization of Production and Transmission**

The main objective of the works taken up under this head is to optimize the output in the existing schemes. It is intended to ensure uninterrupted water supply, reduction of water loss due to leakage and breakage and energy conservation. Main works executed include

- Renovation and capacity enhancement of old water treatment plants
- Reducing the distributional loss and to improve performance
- Replacement of old pipes including pumping mains and transmission Mains of existing water supply schemes.
- Prevent loss of water due to leakage and breakage in various components
- Energy conservation measures
- Rehabilitation of obsolete pumps, motors and Electrical Installations
- Provide pipeline extension to water stressed areas from existing WSS

An amount of Rs.10000 lakhs was provided during the year 2019-20. During the financial year 2019-20, 182 No. of works were completed, which includes renovation of 29 No. of old water treatment plants, 250.97 Km. of old pipes of existing WSS were replaced and some were extended and rehabilitation of 68 obsolete pumps of motors. The performances of the schemes were improved and the output was enhanced by such works. The total expenditure for the financial 2019-20 year was Rs.2054.41 lakh.

#### **4.3.12. Source improvement and water conservation**

The objective of works undertaken in this head is to ensure that the sufficient water is available in the source in summer / drought season. During the period many works for strengthening the source and increasing the storage capacity were done which mainly include construction of check dams and regulators. By this activity the water stress in this summer could be mitigated to a large extent. An amount of Rs.400 lakhs has been provided in the year 2019-20 for this head and no expenditure has made for the year 2019-20.

#### **4.3.13. Drinking water - Drought mitigation**

For meeting drought relief activities and unforeseen emergency interventions an amount of Rs.3000 lakhs was provided in the budget 2019-20. 1226 works has been carried out for improving the water supply during drought. The total expenditure for the financial 2019-20 year is Rs.918.98 lakh.

#### **4.3.14. JICA Assisted Kerala Water Supply Project**

JICA Assisted Kerala Water Supply Project envisages the implementation of five water supply schemes in Thiruvananthapuram, Meenad, Cherthala, Kozhikkode and



Pattuvam for a total estimated cost of Rs.1787.45 crore. The project cost has been subsequently revised to Rs.2987.40 crore. All the projects except part of the Distribution System in Meenad and Kozhikkode and Rehabilitation of WTP at Thiruvananthapuram have been completed and commissioned.

Thiruvananthapuram, Cherthala and Pattuvam scheme have already been completed and commissioned. For Kozhikkode scheme and Meenad Schemes, all components except part of distribution system have been completed and partially commissioned. By commissioning the above 5 schemes under JICA, the production has been enhanced by 516 mld. It benefits a population of about 41 lakhs in the scheme areas in the 5 districts viz- Thiruvananthapuram, Kollam, Alappuzha, Kozhikkode and Kannur. The KWA Board held on 03.01.2020 resolved to close all the ongoing activities of JICA by March 2020. The works for which original time of completion is beyond March 2020 shall be closed by December 2020. Accordingly, the distribution works at Kozhikkode Scheme was closed as on 30.03.2020. The work of Distribution System in Meenad Scheme is in progress. A Budget provision of Rs.10 crores is provided for 2020-21 for the completion of balance works under this project.

#### **4.3.15. National Rural Drinking Water Programme (NRDWP)**

The main activities under this head is given below

##### **a) ARWS Schemes**

During the financial year 2019-20, no water supply schemes were sanctioned under Centrally Sponsored ARWSP/NRDWP. Government of India have launched National Jal Jeevan Mission (NJJM) from August 2019 envisaging Functional Household Tap Connection to all the rural households by 2024. The erstwhile ARWSP / NRDWP had been subsumed into Jal Jeevan Mission. During the year 2019-20, State had received an amount of Rs.102.29 crore under Jal Jeevan Mission. Out of the above, the State had utilized Rs.62.26 crore for the ongoing schemes under erstwhile NRDWP. The reason for non-utilisation of JJM funds is that no new schemes have been taken up under Jal Jeevan Mission. During the above period 13 schemes were completed (fully /partially) in various districts benefiting a population of about 14.27 lakh. There are 54 ongoing schemes (including financially incomplete) as on 31.03.2020 under this head.

##### **b) Support Activities**

5% of the NRDWP / JJM fund is provided for support Activities. The funding pattern of support activity is 60:40 between Central and State. Under support activity, training, MIS etc. are taken up. From the year 2019-20 there is no specific allocation for support activities under NRDWP. Hence 5% (max) of total NRDWP / JJM fund can be utilized for the purpose. During the year 2019-20, as no plan was approved under Support Activities, no fund had been utilized under Support Activities.

### c) **Water Quality Monitoring and Surveillance Programme (WQM&SP)**

3% of the NRDWP fund is provided for Water Quality Monitoring and Surveillance Programme (WQM&SP). Under WQM & SP water quality monitoring of drinking water sources, formation and modernisation of water quality testing labs, water quality test using Field Test Kit by CCDU (Water) etc. are taken up. The funding pattern is 60:40 between Central and State. During the year 2019-20 an amount of Rs.101.45 lakh had been utilized for the above programme.

### d) **NITI Ayog**

NITI Ayog has allotted Rs.19.73 crore to Kerala for providing interim water supply to 73 Fluoride affected habitations in the state as one time additional (OTA) central assistance. It is envisaged to ensure 8 to 10 lpcd safe drinking water by installing Community Water Purification Plants (CWPP) in the Fluoride / Arsenic affected habitations as an interim measure. In Kerala there are no Arsenic affected habitations. Kerala water Authority has proposed R.O Plants and feasible pipeline extension from nearby safe sources in the affected habitations utilising NITI Ayog allocation. Accordingly, Kerala Water Authority has provided safe water on a permanent basis in 55 Fluoride affected habitations by providing pipeline extension from treated sources. As per the status as on 31.03.2020, 18 Fluoride affected habitations are remaining to be covered. Now NITI ayog accorded permission for laying pipe line extension to the fluoride affected habitations remaining to be covered. Based on the above, action is being taken to implement proposals to cover remaining habitations.

### e) **Jal Jeevan Mission (JJM)**

Jal Jeevan Mission (JJM) is envisioned to provide safe and adequate drinking water through individual household tap connections by 2024 to all households in rural India. The mission aims at providing Functional Household Tap Connection (FHTC) to every rural household by 2024 and ensures that every rural household has drinking water supply in adequate quantity of prescribed quality on regular and long-term basis at affordable service delivery charges leading to improvement in living standards of rural communities. This Project is being implemented on 50:50 cost sharing basis between the centre and state.

#### **Present status of Kerala state**

- Total no. of Rural Households – 67.15 lakh
- No. of rural FHTC (as on 31/03/2020) – 17.5 lakh
- Balance No. of FHTCs to be provided by 2024 – 49.65 lakh

#### **Status of Implementation of JJM in Kerala**

The Government order for the implementation of Jal Jeevan Mission through the 3 tier Panchayati Raj system was issued on June 2020. For 2020-21, Annual Action Plan (AAP) for providing 21.42 lakh household connections has been approved by

Government. As per 2020-2021 plan, **100% households of 586 villages, 380 Panchayats and 23 block Panchayats are targeted.** SC-ST dominated villages has been covered to a greater extent in this year's plan. Out of 18 targetted villages, 12 numbers are targeted to be covered this year. The left out villages will be covered in the subsequent years. Out of 114 Quality affected habitations like fluoride, salinity, iron etc, 104 habitations will be covered in 2020-21. For the remaining habitations 10 Community Water Purification Plants (CWPP) are proposed as an interim measure in this year's plan. Parallel activities of campaigning/community mobilization/publicity through visual media/other social media are also taken ahead in a Mission mode. For implementation of the project, all institutional arrangements at State/District and Panchayat level are in place. As per Annual Action Plan for 2020-21, DERs for providing 21.42 lakh connections as per 2020-21 plan has been prepared and submitted to 791 Panchayats. State Water and Sanitation Mission (SWSM) meeting held on 5/8/2020 approved proposal for providing 16.48 lakh FHTCs in 716 panchayats as first phase. State Level Scheme Sanctioning Committee (SLSSC) held on 13/8/2020, approved projects for providing 16.48 lakh FHTCs in 716 Panchayats. Government accorded Administrative Sanction on 21/8/2020 amounting to Rs.4343.89 crores for providing 16.48 lakh FHTCs in 716 Panchayats. KWA has tendered 799 works for giving 15.39 lakh FHTCs in 692 Panchayats till date (as on 20 Oct 2020). Work order given for 415 works for giving 4.47 lakh FHTCs in 411 Panchayats covering 114 Assembly constituencies till date (as on 20 Oct 2020). Kerala Government is taking every steps to provide household water connection to all rural households by 2024 to improve the living standards of rural public especially during this Covid 19 situation.

#### **4.4. WORKS UNDER OTHER HEADS**

In addition to above, KWA executes projects under KIIFB and AMRUT also. Most of the works taken up under JNNURM and UIDSSMT with GoI funds earlier has almost been commissioned. The JICA loan assistance has also been closed. More allotment from the State is required for commissioning the projects as per schedule, as fund flow in projects is affecting the progress. The works being undertaken other than State Plan schemes are KIIFB, AMRUT, UIDSSMT, JNNURM & RKI. In addition, KWA also executes water supply projects of various departments as deposit works. A brief note on works under taken in the above heads are given below.

#### **4.5. KIIFB**

Government of Kerala had accorded In-principle Sanction for 72 drinking water projects of KWA and KIIFB had so far accorded Sanction and Approval for funding for 70 projects for an amount of Rs.4428.763 crore. Under KIIFB funding 2016-17, a total of 23 water supply projects for an amount of Rs.1257.1 crore are being implemented in 66 packages. Out of these 66 packages, 57 packages have been tendered, 51 packages are under various stages of execution and 20 packages have already been completed. The remaining packages include electro-mechanical items and that requires land acquisition. In addition to this, there are 11 projects under 'Replacement of old Transmission mains in 11 circles' out of which 10

projects have been approved by KIIFB for an amount of Rs.382.64 crore and the project 'Replacements in Kochi' circle is under appraisal by KIIFB Appraisal Division. The works in 10 circles are under various stage of execution. Under KIIFB 2017-18, GoK had accorded in-principle sanction for 35 projects and KIIFB had accorded Sanction and Approval for funding for 35 projects amounting Rs. 2468.616 Cr. and remaining 1 project is under KIIFB appraisal. These projects are being implemented in 94 packages. Out of these 94 packages, 48 packages have been tendered, 41 packages are under various stages of execution and 2 packages have already been completed. The remaining packages require land acquisition. Under KIIFB 2018-19, GoK had accorded in-principle sanction for 2 projects and KIIFB had accorded approval for funding for 2 projects amounting Rs.320.41 crore. These projects are being implemented in 10 packages. Out of these 10 packages, 2 packages have been tendered and agreement has been executed for these 2 packages.

#### **4.6. AMRUT (Atal Mission for Rejuvenation and Urban Transformation)**

KWA is entrusted to execute projects under Atal Mission for Rejuvenation and Urban Transformation (AMRUT) in Water supply and Sewerage for 9 cities in Kerala. The KWA Water Supply projects spread across 6 Corporations (Trivandrum, Kollam, Kochi, Thrissur, Kozhikode and Kannur) and 3 Municipalities (Alappuzha, Guruvayur and Palakkad). KWA is executing sewerage works under AMRUT in Trivandrum, Kollam and Kochi Corporations. The funding pattern is such that the total project fund is divided among Central, State and respective ULBs, as 50: 30: 20 share respectively. KWA is executing 168 water supply works (Rs.1112.74 crore) and 115 sewerage works (Rs.219.82 crore) in the above cities for total administrative sanction of Rs.1332.56 crore.

The Water Supply works under AMRUT includes construction of WTPs, OHSRs, laying new pipelines, replacing damaged pipe lines, installation of smart meters, flow meters, providing new house connections etc. Sewerage works executed by KWA under AMRUT in Trivandrum includes rehabilitation of existing networks and damaged pumps, providing new network in the missing areas, construction of new pump houses, laying pumping mains, transmission mains, sludge drying unit at STP, Muttathara, decentralized 5 MLD STP at Medical College, Trivandrum in addition to 12 MLD STP at Kureepuzha in Kollam Corporation and 5 MLD STP AT Elamkulam at Kochi Corporation.

Kerala Water Authority has tendered works for Rs.1326.56 crore and out of this, works for Rs.1290.05 crore has been arranged. Out of the arranged works, works for an amount of Rs.183.27 crore has been completed so far and balance works are in different stages of execution. The up to date expenditure comes to Rs.572.45 crore. Project period of AMRUT is five years from the financial year 2015-16 to 2019- 20. The mission period has been extended to 31.3.2021. Hence Kerala Water Authority focuses to complete all the projects sanctioned under AMRUT within the mission period so as to ensure access to reliable water supply services of approved standards of quality and reliable sewerage services to every household in the AMRUT cities by March 2021.

#### **4.7. RKI (Rebuild Kerala Initiative)**

There are seven new projects sanctioned under RKI in this year for an AS Amount of Rs.182.6 crore. They are Improvement of WSS to Cheranalloor Panchayat, Distribution network for RWSS to TV Puram Panchayat, WSS to Kaduthuruthy and Adjoining Villages, WSS to Erumeli Zone (I, III&V Part) Distribution System, WSS to Pavaratty & Mullassery Panchayaths in Chavakkad Taluk-Phase 2, CWSS to Sulthanbathery Municipality, Noolpuzha and Muttill Grama Panchayat in Wayanad District, WSS to Erumeli Panchayat-Laying Distribution system in Zone 4 – Kanakapallam.

#### **4.8. Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT)**

Urban Infrastructure Development Scheme for Small and Medium Towns (UIDSSMT) was launched for improvement in urban infrastructure including water supply in towns and cities in a planned manner. The implementation of the scheme is done by the respective Urban Local Bodies (ULB) – Municipalities for which the funds will be released to Urban Local bodies according to requirement. In order to execute the projects smoothly a Tri-partite agreement is signed between the respective Municipality, Kerala Water Authority, and Department of LSGD. As per this MOU a city level Technical Advisory Group is formed for respective Municipalities. Funding pattern is Central: 80%, State 10% and ULB 10%.

#### **4.9. Jawaharlal Nehru national Urban Renewal Mission (JNNURM) Projects**

Government had accorded sanction for projects 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, Kerala Water Authority (KWA), Department of LSGD 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.

The JNNURM water supply project in Kochi has been commissioned and in Thiruvananthapuram the work has almost been completed. The ADB assisted sewerage works being executed in Kollam, Kozhikode, Kochi and Thiruvananthapuram has not been completed and the funding agency has withdrawn from the project. As the schemes have not been commissioned fully and the funding agency has withdrawn / wind up, it is necessary to evolve procedure for future course of actions. For solving the pending issues in connection with JNNURM, UIDSSMT and KSUDP works a State Level Technical Committee (SLTC) was constituted. Initially it was convened by State Mission Management Unit (SMMU). Now the Committee is convened under Kerala Water Authority, Technical Member as Chairman. For solving the pending issues different meetings were done and a State Level High Powered Steering Committee (SHPS) was also constituted at Govt. level chaired by the Chief Secretary.



#### 4.10. Deposit works

Under decentralized planning Kerala Water Authority undertakes deposit works from local bodies and other departments. Most of these works are line extension proposals and mini schemes.

KWA also execute works based on the funds received from Kerala State Coastal Area Development Corporation, Minority Department, SC / ST departments, MLA-ADS fund, MP fund and other agencies for supplying water to more areas and benefiting more population.

#### District wise category of Schemes in Operation – Southern Region

SI No	Name of District	Name of Scheme	Category
1	Thiruvananthapuram	Thiruvananthapuram WSS	Urban
2	Thiruvananthapuram	CWSS to Kovalam Tourist area, Vizhinjam corporation area, Kalliyoor and Venganoor panchayath	Urban - Rural
3	Thiruvananthapuram	RWSS to Athiyannoor	Rural
4	Thiruvananthapuram	RWSS to Parachakulam	Rural
5	Thiruvananthapuram	RWSS to Thirupuram	Rural
6	Thiruvananthapuram	RWSS Payattuville	Rural
7	Thiruvananthapuram	RWSS to Uchakkada	Rural
8	Thiruvananthapuram	CWSS to Kanjiramkulam, Karimkulam & Thirupuram	Rural
9	Thiruvananthapuram	RWSS to Chavadi	Rural
10	Thiruvananthapuram	RWSS to Pulimkudi	Rural
11	Thiruvananthapuram	RWSS to Kottukal	Rural
12	Thiruvananthapuram	RWSS to Poovar - Karichal	Rural
13	Thiruvananthapuram	RWSS to Chowara	Rural
14	Thiruvananthapuram	CWSS to Vizhunjam	Urban
15	Thiruvananthapuram	UWSS to Aralummoodu	Urban - Rural
16	Thiruvananthapuram	TWSS to Nemom portion	Rural
17	Thiruvananthapuram	CWSS to Pallichal, Vilavoorkkal Pts.	Rural
18	Thiruvananthapuram	RWSS to Balaramapuram	Urban - Rural
19	Thiruvananthapuram	RWSS to Attaramoola	Rural
20	Thiruvananthapuram	Neyyattinkara WSS	Urban - Rural
21	Thiruvananthapuram	RWSS to Marayamuttom	Rural
22	Thiruvananthapuram	RWSS to Kodithookkimala	Rural

23	Thiruvananthapuram	CWSS to Kalippara	Urban - Rural
24	Thiruvananthapuram	RWSS to Vilavoorkkal	Rural
25	Thiruvananthapuram	RWSS to Parassala	Rural
26	Thiruvananthapuram	RWSS to Kunnathukal	Rural
27	Thiruvananthapuram	RWSS to Aryancode	Rural
28	Thiruvananthapuram	RWSS to Valiyakulam, Poozhikkunnu and Virali Uchakkada	Rural
29	Thiruvananthapuram	RWSS to Dhanuvachapuram	Rural
30	Thiruvananthapuram	RWSS to Kuzhinjanvila	Rural
31	Thiruvananthapuram	CWSS to Vakkom Anjengo	Rural
32	Thiruvananthapuram	UWSS to Attingal Azhoor Kizhuvilam	Urban - Rural
33	Thiruvananthapuram	WSS to Technocity, Pallippuram	Urban
34	Thiruvananthapuram	RWSS to Sarkara Kadakam	Rural
35	Thiruvananthapuram	RWSS to Venjaramoodu	Rural
36	Thiruvananthapuram	RWSS to Nellanadu	Rural
37	Thiruvananthapuram	RWSS to Vamanapuram	Rural
38	Thiruvananthapuram	ARWSS to Edakkodu and adjoining Villages	Rural
39	Thiruvananthapuram	ARWSS to Kilimanoor, Pazhayakunnummel and Madavoor Villages	Rural
40	Thiruvananthapuram	RWSS to Manjappara	Rural
41	Thiruvananthapuram	RWSS to Kilimanoor and Kanara	Rural
42	Thiruvananthapuram	RWSS to Pulimath	Rural
43	Thiruvananthapuram	RWSS to Nagaroor	Rural
44	Thiruvananthapuram	RWSS to Edavanakkonam	Rural
45	Thiruvananthapuram	RWSS to Vellalloor	Rural
46	Thiruvananthapuram	RWSS to Mulavanakunnu	Rural
47	Thiruvananthapuram	RWSS to Vanchiyoor	Rural
48	Thiruvananthapuram	RWSS to Ayilam - Elamba	Rural
49	Thiruvananthapuram	RWSS to Aryankunnu	Rural
50	Thiruvananthapuram	RWSS to Andoorkonam	Rural
51	Thiruvananthapuram	RWSS to Kadinamkulam	Rural
52	Thiruvananthapuram	CWSS TO VARKALA & ADJOINING VILLAGES	Urban - Rural
53	Thiruvananthapuram	RWSS TO SREENIVASAPURAM	Rural
54	Thiruvananthapuram	RWSS TO ANAKUZH	Rural
55	Thiruvananthapuram	RWSS TO KAYALPURAM	Rural
56	Thiruvananthapuram	RWSS TO ALUVILAPURAM	Rural
57	Thiruvananthapuram	RGNDWM TO THOTTUMUGHAM	Rural
58	Thiruvananthapuram	RWSS TO EDAVA (NEW)	Rural

59	Thiruvananthapuram	RWSS TO EDAVA (OLD)	Rural
60	Thiruvananthapuram	RWSS to Palachira	Rural
61	Thiruvananthapuram	RWSS to Karathala	Rural
62	Thiruvananthapuram	RWSS to Vennicode	Rural
63	Thiruvananthapuram	CWSS to Cherunniyoor	Rural
64	Thiruvananthapuram	RWSS to kattuvila	Rural
65	Thiruvananthapuram	CWSS to Vettoor	Rural
66	Thiruvananthapuram	RWSS to Vettoor Vilabhagam	Rural
67	Thiruvananthapuram	RWSS to vettoor Valayantakuzhy	Rural
68	Thiruvananthapuram	ARWSS to Karavam (Pavalla booster PH)	Rural
69	Thiruvananthapuram	CWSS to Madavoor	Rural
70	Thiruvananthapuram	RWSS to Pallickal	Rural
71	Thiruvananthapuram	RWSS to Kakkodu	Rural
72	Thiruvananthapuram	CWSS to Navaikulam	Rural
73	Thiruvananthapuram	CWSS to Manamboor & Ottoor	Rural
74	Thiruvananthapuram	CWSS to Kallara, Pangode, Panavoor, Pullampara and Vembayam	Rural
75	Thiruvananthapuram	UWSS to Nedumangad	Urban
76	Thiruvananthapuram	RWSS to Karakulam	Rural
77	Thiruvananthapuram	RWSS to Aruvikkara	Rural
78	Thiruvananthapuram	RWSS to Anad	Rural
79	Thiruvananthapuram	CWSS to Vithura Tholicode Villages	Rural
80	Thiruvananthapuram	RWSS to Chettachal	Rural
81	Thiruvananthapuram	RWSS to Pannikuzhy	Rural
82	Thiruvananthapuram	RWSS to Idinjar	Rural
83	Thiruvananthapuram	RWSS to Kundalamkuzhy	Rural
84	Thiruvananthapuram	RWSS to Palode	Rural
85	Thiruvananthapuram	RWSS to Manickal	Rural
86	Thiruvananthapuram	RWSS to Vilappil	Rural
87	Thiruvananthapuram	RWSS to Kuttichal	Rural
88	Thiruvananthapuram	RWSS to Poovachal	Rural
89	Thiruvananthapuram	RWSS to Vellanad	Rural
90	Thiruvananthapuram	RWSS to Aryanad	Rural
91	Thiruvananthapuram	RWSS to Uzhamalakkal	Rural
92	Kollam	QWSS	Urban
93	Kollam	RWSS to Mynagappally	Rural
94	Kollam	RWSS to Kunnathoor	Rural
95	Kollam	RWSS to Sasthamkotta	Rural
96	Kollam	RWSS to Poruvazhi	Rural
97	Kollam	RWSS to West Kallada	Rural
98	Kollam	RWSS to Sooranadu South	Rural



99	Kollam	RWSS to Sooranadu North	Rural
100	Kollam	CWSS to Oachira and Adjoining Panchayaths	Urban - Rural
101	Kollam	RWSS to Kulasekharapuram	Rural
102	Kollam	RWSS to Alappad	Rural
103	Kollam	UWSS to Karunagappally	Urban
104	Kollam	RWSS to Thevalakkara	Rural
105	Kollam	RWSS to Thekkumbhagom	Rural
106	Kollam	RWSS to Thodiyyor	Rural
107	Kollam	RWSS To Thazhava	Rural
108	Kollam	RWSS to Neendakara (Tapping from QWSS to Kollam)	Rural
109	Kollam	CWSS to Chavara, Panmana	Rural
110	Kollam	RWSS to Thrikkadavoor	Urban
111	Kollam	RWSS to Thrikkaruva	Rural
112	Kollam	RWSS to Panayam	Rural
113	Kollam	RWSS to Perinadu	Rural
114	Kollam	RWSS to Mundroethuruth	Rural
115	Kollam	KWA-JICA Assisted KWSP - Meenad and adjoining vilages- Package III- P3RR1	Urban - Rural
116	Kollam	WSS to Paravur, Pozhikkara & Kongal	Urban
117	Kollam	WSS to Koonayil, Moolavattom & Rama Rao	Urban
118	Kollam	WSS to Kalakkodu, Paravila & Chambanchal	Urban
119	Kollam	RWSS to Kalluvathukkal	Rural
120	Kollam	RWSS to Mayyanad	Rural
121	Kollam	RWSS to Kottamkara	Rural
122	Kollam	RWSS to Thrikovilvattom	Rural
123	Kollam	RWSS to Nedumpana	Rural
124	Kollam	RWSS to Kottiyam, Perayam	Rural
125	Kollam	CARWSS to Kulathupuzha	Rural
126	Kollam	CWSS to Chithara	Rural
127	Kollam	RWSS to Vettamchira	Rural
128	Kollam	RWSS to Chadayamangalam	Rural
129	Kollam	RWSS to Kallumala	Rural
130	Kollam	CARWSS to Kulathupuzha and Adj pt	Rural
131	Kollam	CWSS to Chithara and adj pt	Rural
132	Kollam	UWSS to Punalur	Urban
133	Kollam	RWSS to Edamon	Rural
134	Kollam	RWSS to Urukunnu	Rural

135	Kollam	ARWSS to Thenmala	Rural
136	Kollam	RWSS to Aryankavu	Rural
137	Kollam	RWSS to Achankovil	Rural
138	Kollam	ARWSS to Pathanapuram	Rural
139	Kollam	ARWSS tp Pattazhy & Pattazhi Vadamkara	Rural
140	Kollam	WSS to Kadakkamon	Rural
141	Kollam	WSS to Dharmapuri	Rural
142	Kollam	WSS to Clavodu	Rural
143	Kollam	JICA Assisted KWSS to Meenad & Adj Villages	Urban - Rural
144	Kollam	RWSS to Velinelloor	Rural
145	Kollam	JICA Assisted KWSS to Meenad & Adj Villages	Rural
146	Kollam	RWSS to Memangalam	Rural
147	Kollam	RWSS to Maravancode	Rural
148	Kollam	BAWSS to Kundara &adj Pt	Urban - Rural
149	Kollam	RWSS to Kareepra	Rural
150	Kollam	RWSS to Punukkannur Chira	Rural
151	Kollam	RWSS to Punukkannur Chira Old PH	Rural
152	Kollam	RWSS to Elampalloor	Rural
153	Kollam	RWSS to Ezhukone	Rural
154	Kollam	RWSS to Maranadu	Rural
155	Kollam	RWSS to Plakkadu	Rural
156	Kollam	ARWSS to Kulakkada & Pavithreswaram RW	Rural
157	Kollam	WSS to Vallam	Rural
158	Kollam	WSS to Anakottoor	Rural
159	Kollam	RWSS to Vettikavala	Rural
160	Pathanamthitta	RWSS to Konni Thazhom	Rural
161	Pathanamthitta	RWSS to Vallicodu Kodumon	Rural
162	Pathanamthitta	RWSS to Pramadam	Rural
163	Pathanamthitta	RWSS to Konni Aruvappulam	Rural
164	Pathanamthitta	RWSS to Malayalappuzha	Rural
165	Pathanamthitta	RWSS to Malappara	Rural
166	Pathanamthitta	RWSS to Thannithodu	Rural
167	Pathanamthitta	RWSS to Ponthanamkuzhy	Rural
168	Pathanamthitta	RWSS to Eerrakkuzhy	Rural
169	Pathanamthitta	UWSS to Adoor & Adj. Panchayaths	Urban - Rural
170	Pathanamthitta	RWSS to Kadambanadu	Rural

171	Pathanamthitta	UWSS to Pandalam Municipality	Urban
172	Pathanamthitta	Chakkanchiramala Well	Rural
173	Pathanamthitta	UWSS to Pathanamthitta	Urban
174	Pathanamthitta	RWSS to Mylapra	Rural
175	Pathanamthitta	RWSS to Elanthoor Mallapuzhassery	Rural
176	Pathanamthitta	RWSS to Kulanada	Rural
177	Pathanamthitta	RWSS to Omalloor	Rural
178	Pathanamthitta	RWSS to Chenneerkkara Mezhuvely	Rural
179	Pathanamthitta	RWSS to Aranmula	Rural
180	Pathanamthitta	RWSS to Pandalam, Thekkekara Thumpamon	Rural
181	Pathanamthitta	RWSS to Kozhencherry	Rural
182	Pathanamthitta	RWSS to Elantoor	Rural
183	Pathanamthitta	WSS to Mezhuvely HC	Rural
184	Pathanamthitta	WSS to Punnakunnu HC	Rural
185	Pathanamthitta	WSS to Muttam HC	Rural
186	Pathanamthitta	WSS to Kadammanitta	Rural
187	Pathanamthitta	WSS to Mullanikkadu	Rural
188	Pathanamthitta	CARWSS to Ranni, Pazhavangadi, Vadasserikkara	Rural
189	Pathanamthitta	RWSS Vechuchira	Rural
190	Pathanamthitta	RWSS to Adichipuzha	Rural
191	Pathanamthitta	RWSS to Cherukole, Naranganam	Rural
192	Pathanamthitta	RWSS Kollamula Kurumbanmoozhi	Rural
193	Pathanamthitta	RWSS to Kudamurutty	Rural
194	Pathanamthitta	RWSS to Madathumpadi	Rural
195	Pathanamthitta	RWSS to Angadi	Rural
196	Pathanamthitta	RWSS to Ayathala	Rural
197	Pathanamthitta	RWSS to Karikulam	Rural
198	Pathanamthitta	RWSS to Vadasserikkara	Rural
199	Pathanamthitta	RWSS to Pezhumpara	Rural
200	Pathanamthitta	RWSS to Perunadu	Rural
201	Pathanamthitta	RWSS to Chittar and Meenkuzhy	Rural
202	Pathanamthitta	RWSS to Kodumudy	Rural
203	Pathanamthitta	CARWSS to Pampa and Sabarimala	Rural
204	Pathanamthitta	RWSS TO Chelachira HC (Homeo college)	Rural
205	Pathanamthitta	RWSS to Thuruthy old	Rural
206	Pathanamthitta	RWSS to Thuruthy Aug.	Rural

207	Pathanamthitta	RWSS to Amara second stage	Rural
208	Pathanamthitta	RWSS to Paippadu	Rural
209	Pathanamthitta	RWSS To Madappally HC Edappally	Rural
210	Pathanamthitta	RWSS to Kanjirathumoodu	Rural
211	Pathanamthitta	RWSS to Chethipuzha	Rural
212	Pathanamthitta	RWSS to Amara first stage	Rural
213	Pathanamthitta	CARWSS to madapally , vakathanam,karukachal	Rural
214	Pathanamthitta	UWSS to Changanacherry	Urban
215	Pathanamthitta	WSS to Kuttanad	Rural
216	Pathanamthitta	CARWSS to Madappally, Vakathanam, Karukachal Injakuzhithakidi	Rural
217	Pathanamthitta	RWSS to Nedukunnam & Kangazha Kulathoormuzhy	Rural
218	Pathanamthitta	RWSS to Vellavoor	Rural
219	Pathanamthitta	RWSS to Kodungoor	Rural
220	Pathanamthitta	RWSS to Manakaracherry	Rural
221	Pathanamthitta	RWSS to Bangalakunnu	Rural
222	Pathanamthitta	RWSS to Karukachal H C	Rural
223	Pathanamthitta	RWSS to Njaliyakuzhy aug	Rural
224	Pathanamthitta	RWSS to Pichanattukulam	Rural
225	Pathanamthitta	RWSS to Njaliyakuzhy old	Rural
226	Pathanamthitta	RWSS to Vakathanam 8&9	Rural
227	Pathanamthitta	RWSS to Vakathanam 3&5 (Thottakkad)	Rural
228	Pathanamthitta	RWSS to Vazhoor	Rural
229	Pathanamthitta	ARWSS to Kallooppa	Rural
230	Pathanamthitta	RWSS to Kallooppa old	Rural
231	Pathanamthitta	RWSS to Mallappally	Rural
232	Pathanamthitta	RWSS to Mullankuzhy	Rural
233	Pathanamthitta	RWSS to Anicadu	Rural
234	Pathanamthitta	RWSS to Perumpara	Rural
235	Pathanamthitta	ARWSS to Kottangal	Rural
236	Pathanamthitta	RWSS to Perumpey	Rural
237	Pathanamthitta	RWSS to Aruvickal	Rural
238	Pathanamthitta	RWSS to Ayroor- Kanjeettukara	Rural
239	Pathanamthitta	RWSS to Koipuram	Rural
240	Pathanamthitta	RWSS to Thottappuzhassery	Rural
241	Pathanamthitta	RWSS to Eraviperoor	Rural
242	Pathanamthitta	RWSS to Puramattam Vennikkulam	Rural

243	Pathanamthitta	RWSS to Ezhumatoor	Rural
244	Pathanamthitta	RWSS to Kumbanad	Rural
245	Pathanamthitta	RWSS to Thelliyoor Pond	Rural
246	Pathanamthitta	WSS to Kuttanad	Rural
247	Pathanamthitta	RWSS to Edathua	Rural
248	Pathanamthitta	RWSS to Thakazhy	Rural
249	Pathanamthitta	RWSS to Veeyapuram	Rural
250	Pathanamthitta	WSS to Kuttanad	Rural
251	Pathanamthitta	RWSS to Kainakary	Rural
252	Pathanamthitta	RWSS to Champakkulam	Rural
253	Pathanamthitta	RWSS to Nedumudi	Rural
254	Pathanamthitta	RWSS to Neelamperoor	Rural
255	Pathanamthitta	WSS to Kuttanadu	Urban - Rural
256	Pathanamthitta	UWSS to Thiruvalla	Urban
257	Pathanamthitta	RWSS to Kaviyoor Kunnathanam	Rural
258	Pathanamthitta	UWSS to Thiruvalla- Changanacherry Municipalities	Urban - Rural
259	Pathanamthitta	CRWSS to Nedumpuram, peringara, Niranam, Kadapra	Rural
260	Pathanamthitta	NRDWP-NC/PC RWSS to Kuttoor	Rural
261	Pathanamthitta	RWSS to Kuttoor	Rural
262	Pathanamthitta	RWSS to Niranam-Kadapra	Rural
263	Pathanamthitta	RWSS to Nedumpuram	Rural
264	Pathanamthitta	RWSS to Peringara	Rural
265	Pathanamthitta	RWSS to Thiruvannamthoor	Rural
266	Kottayam	ARWSS to Kumarakom & Thiruvapur Panchayat (including RWPH Thazhathangady	Rural
267	Kottayam	UWSS to Kottayam (including BPH Puthenangady	Urban
268	Kottayam	WSS Kottayam Sub Project	Urban - Rural
269	Kottayam	RWSS to Manarcad	Rural
270	Kottayam	RWSS to Parathanamkunnu road	Rural
271	Kottayam	UWSS to Kottayam (including RWPH and WTP)	Urban
272	Kottayam	ARWSS to Ayarkunnam, Kooroppada, and Pambady (including RWPH, CWPH Arumanoor, BPH at vazhepparambu and Mathrumala, GL tnak Elappani, Koithanam, Pothenpuram)	Rural

273	Kottayam	ARWSS to Puthuppally (including Boosting Pump house Thalappdi and Vennimala new and Vennimala old, GL tank Kumaramkodu and Vennimala)	Rural
274	Kottayam	RWSS to Puthuppally- Angady	Rural
275	Kottayam	RWSS to Puthuppally- Pariyaram	Rural
276	Kottayam	RWSS to Puthuppally- Thottakkad new	Rural
277	Kottayam	RWSS to Puthuppally- Thottakkad old	Rural
278	Kottayam	RWSS to Puthuppally- Kavalichira	Rural
279	Kottayam	RWSS to Puthuppally- Ericadu	Rural
280	Kottayam	RWSS to Pampady	Rural
281	Kottayam	RWSS to Ayarkunnam	Rural
282	Kottayam	CWSS to Ettumanoor and adjoining Villages	Urban - Rural
283	Kottayam	RWSS to Kattachira	Urban
284	Kottayam	RWSS to Athirampuzha	Rural
285	Kottayam	ARWSS to Chirakkadavu- Kanjirappally Elikkulam	Rural
286	Kottayam	RWSS to Challoly	Rural
287	Kottayam	RWSS to Elampally	Rural
288	Kottayam	RWSS to Anicadu	Rural
289	Kottayam	RWSS to Mukkaly	Rural
290	Kottayam	RWSS to Karikkatoor	Rural
291	Kottayam	WSS To ERUMELY	Rural
292	Kottayam	RWSS To Mundakayam	Rural
293	Kottayam	RWSS To Kosady	Rural
294	Kottayam	ARWSS to Parathodu	Rural
295	Kottayam	RWSS To Kalaketty	Rural
296	Kottayam	RWSS To Thumarampara	Rural
297	Kottayam	RWSS to Thevarupara	Urban
298	Kottayam	RWSS to Erattupetta	Urban
299	Kottayam	RWSS to Thidanadu	Urban
300	Kottayam	RWSS to Poonjar	Rural
301	Kottayam	RWSS to Poonjar Thekkekara	Rural
302	Kottayam	RWSS to Thalanadu	Rural
303	Kottayam	UWSS to Pala	Urban
304	Kottayam	ARWSS to Puliyanoor ,Meenachil & Akalakunnam villages	Rural
305	Kottayam	ARWSS to Lalam Vallichira	Rural
306	Kottayam	RWSS to Ramapuram	Rural

307	Kottayam	ARWSS to Veliyanloor and adjoining villages	Rural
308	Kottayam	CWSS to Manjoor and Kanikkari Panchayaths	Rural
309	Kottayam	ARWSS TO KIDANGOOR	Rural
310	Kottayam	RWSS TO ELAKKADU KURICHITHANAM AND PALAKKATTUMALA	Rural
311	Kottayam	RWSS TO VATTUKULANGARA	Rural
312	Kottayam	RWSS KUMMANNOOR	Rural
313	Kottayam	ARWSS TO VELIYANNOOR AND ADJOINING VILLAGES PHASE 3	Rural
314	Kottayam	ARWSS to Veliyanloor and adjoining villages	Rural
315	Kottayam	ARWSS TO THALAYAZHAM AND ADJOINING VILLAGES	Urban - Rural

#### **District wise category of Schemes in Operation – Central Region**

<b>SI No</b>	<b>Name of Circle</b>	<b>Name of Scheme</b>	<b>Category</b>
1	Thrissur	CWSS to Chalakudy	Urban-Rural
2	Thrissur	AUWSS to Chalakudy	Urban
3	Thrissur	RWSS to Pulipparakunnu	Rural
4	Thrissur	RWSS to Kodakara	Rural
5	Thrissur	RWSS to Alathur	Rural
6	Thrissur	RWSS to Kavanad	Rural
7	Thrissur	RWSS to Annampadam	Rural
8	Thrissur	RWSS to Mattathur and Kadamkode	Rural
9	Thrissur	RWSS to Maniyankunnu & Kodyankunnu	Rural
10	Thrissur	RWSS to Anandhapuram	Rural
11	Thrissur	BWSS to EMHS Aloor	Rural
12	Thrissur	RWSS to Aloor Thazhekkad	Rural
13	Thrissur	RWSS to Aloor - Kallettukara	Rural
14	Thrissur	RWSS to Aloor - Kuzhikkattussery	Rural
15	Thrissur	RWSS to Aloor - Porunnamkunnu	Rural
16	Thrissur	BWSS To Kachery	Urban
17	Thrissur	BWSS To Sooryagramam	Rural
18	Thrissur	BWSS To Thengumvetozy	Urban-Rural
19	Thrissur	RWSS To Nenmanikkara	Rural
20	Thrissur	RWSS To Pookode and Mannampetta	Rural



21	Thrissur	RWSS To Pudukkad & Alagappanagar (No. 1)	Rural
22	Thrissur	RWSS To Pudukkad & Alagappanagar (No.2)	Rural
23	Thrissur	RWSS To Varakkara	Rural
24	Thrissur	Rwss To Varantharappilly	Rural
25	Thrissur	Aug of Thrikkur and Kallur villages	Rural
26	Thrissur	22 RWSS- NABARD Assisted - RDWSS to Pudukad - Parappukkara & Alagappanagar.	Rural
27	Thrissur	RWSS to Mupliyam	Rural
28	Thrissur	WGDP Parakkadavu	Rural
29	Thrissur	ARWSS to Meloor & RWSS to Koraty	Rural
30	Thrissur	RWSS to Kallur - Vadakkumury	Rural
31	Thrissur	RWSS to Pariyaram	Rural
32	Thrissur	BWSS to Chaippankuzhy	Rural
33	Thrissur	BWSS to Pongam	Rural
34	Thrissur	RWSS to Nalukettu - Errattachira	Rural
35	Thrissur	RWSS to Nalukettu - Boosting	Rural
36	Thrissur	CWSS to Methala Eriyad Edavilangu and Kadukutty Panchayaths ( SPAN Kadukutty)	Urban-Rural
37	Thrissur	WSS to Infopark	Urban
38	Thrissur	TWSS to Irinjalakuda	Urban-Rural
39	Thrissur	IWSS to Irinjalakuda	Urban
40	Thrissur	RDWSS to Kattur, Padiyur, Poomangalam	Rural
41	Thrissur	KPCTA - Karalam, Padiyur	Rural
42	Thrissur	RWSS to Thottippal	Rural
43	Thrissur	Span Urakam and Adj villages	Urban-Rural
44	Thrissur	WSS to Paralam	Rural
45	Thrissur	WSS to Avinissery, Vallachira & Cherpu	Rural
46	Thrissur	WSS to OVC	Rural
47	Thrissur	WSS to KPCTA Chazhoor, Thanniam Anthikkad	Rural
48	Thrissur	CWSS to Nattika Firka	Rural



49	Thrissur	CWSS to Mala, KMWSS & Adj Panchayaths	Urban-Rural
50	Thrissur	CWSS to Methala Eriyad Edavilangu and Kadukutty Panchayaths	Urban-Rural
51	Thrissur	RWSS to Ollukkara	Urban
52	Thrissur	RWSS to Vilvattom	Urban
53	Thrissur	RWSS to Nadathara	Rural
54	Thrissur	RWSS to Ramavarmapuram	Rural
55	Thrissur	RWSS to Valiyaparambu	Rural
56	Thrissur	RWSS to Poomala	Rural
57	Thrissur	RWSS to Varadium	Rural
58	Thrissur	RWSS to Kolazhy	Rural
59	Thrissur	RWSS to MG Kavu (Killanur)	Rural
60	Thrissur	RWSS to Adat	Rural
61	Thrissur	RWSS Ayyanthole, Arimpur & Manalur	Urban-Rural
62	Thrissur	RWSS to Koorkkenchery	Urban
63	Thrissur	RWSS to Aranattukara	Urban
64	Thrissur	Thrissur Water Supply Scheme	Urban-Rural
65	Thrissur	RWSS to Cheenayipara, Vilanganur, Pananchery	Rural
66	Thrissur	RWSS to Puthur	Rural
67	Thrissur	RWSS to Puzhamballam	Rural
68	Thrissur	RWSS to Marathakkara	Rural
69	Thrissur	RWSS to Vettukad	Rural
70	Thrissur	UIDSSMT – WSS to Chavakkad Guruvayur Municipality	Urban
71	Thrissur	RWSS to Vengidangu	Rural
72	Thrissur	RWSS to Kandanassery	Rural
73	Thrissur	RWSS to Orumanayoor	Rural
74	Thrissur	RWSS to Tholur	Rural
75	Thrissur	RWSS to Ponnore	Rural
76	Thrissur	RWSS to Pavaratty	Rural
77	Thrissur	RWSS to Irubranellur	Rural
78	Thrissur	RWSS to Kundazhiyoor	Rural
79	Thrissur	RWSS to Chettuva	Rural
80	Thrissur	RWSS to Pokulangara	Rural
81	Thrissur	RWSS to Kadapuram	Rural
82	Thrissur	CWSS to Kunnamkulam	Urban-Rural
83	Thrissur	ARWSS to Cheranellur	Rural
84	Thrissur	PRWSS to Kunnamkulam	Urban-Rural

85	Thrissur	Pavaratty Regional WSS	Rural
86	Thrissur	Kunnangulam Guruvayoor WSS	Urban-Rural
87	Thrissur	CWSS to Kunnankulam Guruvayoor	Urban-Rural
88	Thrissur	CWSS to Wadakkanchery & Adj. Villages	Urban-Rural
89	Thrissur	CARWSS to Kadangodu & Adj. Panchayaths	Rural
90	Thrissur	CARWSS to Thekkumkara & Adj. Villages	Rural
91	Thrissur	RWSS to Cheruthuruthy & Nedumpura Villages	Rural
92	Thrissur	RWSS to Desamangalam	Rural
93	Thrissur	RWSS to Kumaranellur	Urban
94	Thrissur	RWSS to Enkakkad	Urban
95	Thrissur	RWSS to Nellikunnu	Urban
96	Thrissur	RWSS to Chalikulnu	Urban
97	Thrissur	RWSS to Koraloor	Urban
98	Thrissur	RWSS to Eyyal	Rural
99	Thrissur	RWSS to Mandamparambu	Rural
100	Thrissur	RWSS to Kanjirai	Rural
101	Thrissur	RWSS to Kiraloor	Rural
102	Thrissur	RWSS to Velloor	Rural
103	Thrissur	RWSS to Vellattajoor	Rural
104	Thrissur	RWSS to Pazhavoor	Rural
105	Thrissur	RWSS to Panniyadi	Rural
106	Thrissur	RWSS to Chittanda	Rural
107	Thrissur	RWSS to Nelluvai	Rural
108	Thrissur	RWSS to Varavoor	Rural
109	Thrissur	CARWSS Thiruvilwamala, Kondazhy villages.	Rural
110	Thrissur	RWSS to Thiruvilwamala (Pampady)	Rural
111	Thrissur	RWSS to Mayannur	Rural
112	Thrissur	RWSS to chelakkode	Rural
113	Thrissur	AUWSP Chelakkara CT	Rural
114	Thrissur	RWSS to Attoor	Rural
115	Thrissur	CARWSS to Pangarappilly	Rural
116	Ernakulam	UWSS to Muvattupuzha	Urban-Rural
117	Ernakulam	CARWSS to Mulavoor, Assamannoor and Thrikkartoor	Urban-Rural
118	Ernakulam	RWSS to Valakam	Rural
119	Ernakulam	RWSS to Arakkuzha	Rural

120	Ernakulam	RWSS to Marady	Rural
121	Ernakulam	ARWSS to Manjalloor	Rural
122	Ernakulam	RWSS to Madakkathanam	Rural
123	Ernakulam	ARWSS to Avoli	Rural
124	Ernakulam	CARWSS to Kadavoor, Kalloorkkad, Kumaramangalam	Rural
125	Ernakulam	ARWSS to Enanalloor	Rural
126	Ernakulam	RWSS to Kavana	Rural
127	Ernakulam	RWSS to Velloorkkara	Rural
128	Ernakulam	UWSS to Koothattukulam	Urban-Rural
129	Ernakulam	RWSS to Palakuzha	Rural
130	Ernakulam	UWSS to Piravom and adjoining Panchayaths	Urban-Rural
131	Ernakulam	RWSS to Amballoor, Edakkattuvayal, Udayamperoor Panchayaths	Urban-Rural
132	Ernakulam	RWSS to Ramamangalam	Rural
133	Ernakulam	RWSS to Ayyanthanam	Rural
134	Ernakulam	RWSS to Pathikal	Rural
135	Ernakulam	UWSS to Piravom Elanji, Thirumaradi Panchayaths	Urban-Rural
136	Ernakulam	ARWSS to Maneed and Mulamthuruthy	Rural
137	Ernakulam	ARWSS to Amballoor, Edakkattuvayal, Udayamperoor	Rural
138	Ernakulam	RWSS to Arakunnam	Rural
139	Ernakulam	RWSS to Kulayattikkara	Rural
140	Ernakulam	RWSS to Parpamcode	Rural
141	Ernakulam	RWSS to Pulikkamaly	Rural
142	Ernakulam	RWSS to Karikode	Rural
143	Ernakulam	RWSS to Kaipattoor	Rural
144	Ernakulam	UWSS to Kothamangalam	Urban
145	Ernakulam	RWSS to Varappetty	Rural
146	Ernakulam	ARWSS to Kuttampuzha	Rural
147	Ernakulam	ARWSS Kuttamangalam, Neriamangalam	Rural
148	Ernakulam	WGDP To Chembankuzhy	Rural
149	Ernakulam	RWSS to Pindimana	Rural
150	Ernakulam	ARWSS to Pothanicad and Pallarimangalam	Rural
151	Ernakulam	NCPC Pallarimangalam-SSF	Rural
152	Ernakulam	ARWSS to Keerampara	Rural
153	Ernakulam	RWSS to Nellikkuzhy	Rural

154	Ernakulam	RWSS to Trikkariyur	Rural
155	Ernakulam	SCP Chelikkuzhithand	Rural
156	Ernakulam	RWSS to Kottappady (old)	Rural
157	Ernakulam	RWSS to Kottappady (New)	Urban
158	Ernakulam	NRDWP Aug of RWSS to Kottappady	Rural
159	Ernakulam	RWSS to Paingottoor	Rural
160	Ernakulam	WGDP to Chathamattam	Rural
161	Idukki	UWSS to Thodupuzha	Urban
162	Idukki	UWSS to Thodupuzha New	Urban
163	Idukki	CARWSS to Alakode & Adj villages	Rural
164	Idukki	RWSS to Edavetty	Rural
165	Idukki	RWSS to Kaloore	Rural
166	Idukki	RWSS to Anchiri	Rural
167	Idukki	RWSS to Ezhalloor	Rural
168	Idukki	RWSS to Perumballichira	Rural
169	Idukki	TWSS to Uriyarkunnu	Rural
170	Idukki	RWSS to Kaliyar Pachila	Rural
171	Idukki	RWSS to Mulapuram	Rural
172	Idukki	NRDWP to RWSS Manakkad and purapuzha	Rural
173	Idukki	RWSS to Muttom	Rural
174	Idukki	RWSS to Kannadippara	Rural
175	Idukki	TWSS to Illichary (Muttom)	Rural
176	Idukki	WSS to Karimkunnam	Rural
177	Idukki	RWSS to Vadakkummury	Rural
178	Idukki	RWSS to Puthedom and Vattakkanni	Rural
179	Idukki	RWSS to Kudayathoor	Rural
180	Idukki	RWSS to Velliyamattom	Rural
181	Idukki	NRDP WSS to Velliyamattom	Rural
182	Idukki	WSS to Vettimattom	Rural
183	Idukki	RWSS to Karimkunnam	Rural
184	Idukki	RWSS to Arakulam	Rural
185	Idukki	TWSS to Thenmari	Rural
186	Idukki	ARWSS to Idukki-Kanjikuzhi	Rural
187	Idukki	RWSS to Kulamavu	Rural
188	Idukki	RWSS to Karimbanmanipara	Rural
189	Idukki	RWSS to Perumkaala	Rural
190	Idukki	RWSS to Rajakad - Rajakumari	Rural
191	Idukki	RWSS to Santhanpara	Rural
192	Idukki	RWSS to Udumbanchola	Rural

193	Idukki	RWSS to Kalkoonthal	Rural
194	Idukki	RWSS Nedumkandam Pampaadumpara	Rural
195	Idukki	RWSS to Chakkakaanam	Rural
196	Idukki	RWSS to Pampadumpara	Rural
197	Idukki	RWSS to Kattappana	Rural
198	Idukki	TWSS to Kattapana	Urban
199	Idukki	TWSS to Valiyakandam	Urban
200	Idukki	RWSS to Kadamakuzhy	Urban
201	Idukki	RWSS to Marykulam	Rural
202	Idukki	RWSS to Chenninaykankudy	Rural
203	Idukki	ARWSS to Erattayar	Urban-Rural
204	Idukki	ARWSS to Haileyburia	Rural
205	Idukki	CARWSS to Elappara and Adjoining Villages	Rural
206	Idukki	RWSS to Vandiperiyar	Rural
207	Idukki	RWSS to Munnar	Rural
208	Idukki	RWSS to Devikulam	Rural
209	Idukki	RWSS to Kunjithanni	Rural
210	Idukki	RWSS to Adimali	Rural
211	Ernakulam	JNNURM WSS to Kochi City Part - 1	Urban-Rural
212	Ernakulam	RWSS to Nagappady	Rural
213	Ernakulam	RWSS to Poothotta	Rural
214	Ernakulam	ARWSS to Edakkattuvayal, Amballoor & Udayamperoor Pts	Rural
215	Ernakulam	RWSS to Poothrikka, Aikaranad, Vadavucode Puthencruz & Thiruvaniyoor Pts	Urban-Rural
216	Ernakulam	World Bank aided WSS to Puthencruz	Rural
217	Ernakulam	Augmnt of WSS to Tripunithura Municipality and adjoining Pts	Urban-Rural
218	Ernakulam	HUDCO WSS to Vypeen	Rural
219	Ernakulam	WSS to N. Paravoor Municipality and Adjoining Pts.	Urban-Rural
220	Ernakulam	CWSS to Kadungalloor Karumalloor & Alangad Pts	Rural

221	Ernakulam	GIDA - CWSS to Varappuzha & Kadamakkudy Pts	Rural
222	Ernakulam	RWSS to Choornikkara Pt.(Part of EMWSS)	Urban-Rural
223	Ernakulam	RWSS to Keehmadu Pt.(Part of EMWSS)	Rural
224	Ernakulam	RWSS to Puthenvelikkara	Rural
225	Ernakulam	WSS to Vadakkekara and Chittattukara	Urban-Rural
226	Ernakulam	RWSS to Nedumbassery and Chengamanadu Pt	Rural
227	Ernakulam	RWSS to Desam-Thuruth	Rural
228	Ernakulam	RWSS to Parakkadavu	Rural
229	Ernakulam	CWSS to Perumbavoor & Vengola	Urban-Rural
230	Ernakulam	CWSS to Rayamangalam	Rural
231	Ernakulam	RWSS to Koovapady	Rural
232	Ernakulam	RWSS to Okkal	Rural
233	Ernakulam	RWSS to Ottathani	Rural
234	Ernakulam	ARWSS to Vengoor East and West	Rural
235	Ernakulam	RWSS to Munipara	Rural
236	Ernakulam	RWSS to Vengoor	Rural
237	Ernakulam	RWSS to Mudakkuzha	Rural
238	Ernakulam	RWSS to Kuruppampady	Rural
239	Ernakulam	RWSS to Nellimolam	Rural
240	Ernakulam	RWSS to Keezhillam	Rural
241	Ernakulam	RWSS to Kallil	Rural
242	Ernakulam	CWSS to Rayamangalam	Rural
243	Ernakulam	RWSS to Asamannoor	Rural
244	Ernakulam	WSS to Vazhakulam-Kizhakkambalam-Kunnathunadu	Rural
245	Ernakulam	RWSS to Vilangu-Kavungaparambu	Rural
246	Ernakulam	RWSS TO Kunnathunadu	Rural
247	Ernakulam	RWSS to Airapuram	Rural
248	Ernakulam	RWSS to Manchanadu	Rural
249	Ernakulam	RWSS to Thattamugal	Rural
250	Ernakulam	RWSS to Mannor	Rural
251	Ernakulam	RWSS to Veetoor	Rural
252	Ernakulam	UWSS to Angamaly	Urban
253	Ernakulam	ARWSS to Kothakulangara South and Manickamangalam Villages	Rural

254	Ernakulam	RWSS to Karukutty and Mookkannoor Panchayaths	Rural
255	Ernakulam	LIC Aided RWSS to Malayattoor	Rural
256	Ernakulam	RWSS to Karukutty	Rural
257	Ernakulam	RWSS to Ezhattumugham	Rural
258	Ernakulam	RWSS to Ayyampuzha	Rural
259	Ernakulam	RWSS to Amalapuram and Thattupara	Rural
260	Ernakulam	RWSS to Manjapara	Rural
261	Ernakulam	RWSS to Tabore	Rural
262	Ernakulam	RWSS to Cheethappara	Rural
263	Ernakulam	CRWSS to Sreemoolanagaram and Kanjoor Pt	Rural
264	Ernakulam	WSS to North Parur Municipality and adj pt	Urban-Rural
265	Ernakulam	EMWSS	Urban-Rural
266	Ernakulam	RWSS to Edathala Pt(Part of EMWSS)	Urban-Rural
267	Ernakulam	UWSS to Aluva Municipality & UCC Area (part of EMWSS)	Urban-Rural
268	Alappuzha	JICA Assisted Water supply Scheme, Cherthala	Urban-Rural
269	Alappuzha	RWSS to Punnapra North (Paravoor)	Rural
270	Alappuzha	RWSS to Punnapra South	Rural
271	Alappuzha	RWSS to Vandanam	Rural
272	Alappuzha	RWSS to Kanjippadam	Rural
273	Alappuzha	RWSS to Ambalappuzha	Rural
274	Alappuzha	RWSS to Karumady	Rural
275	Alappuzha	RWSS to Purakkad	Rural
276	Alappuzha	RWSS to Thottapally	Rural
277	Alappuzha	UIDSSMT - Aug of WSS to Alappuzha municipality and 9 Adjoining Panchayath	Urban-Rural
278	Alappuzha	WSS to Alappuzha	Urban
279	Alappuzha	RWSS to Aryad	Rural
280	Alappuzha	RWSS to Chettikad	Rural
281	Alappuzha	CWSS to Kayamkulam and Arattuppuzha	Urban-Rural
282	Alappuzha	RWSS to Arattuppuzha	Rural
283	Alappuzha	RWSS TO MUTHUKULAM	Rural
284	Alappuzha	RWSS TO KANDALLOOR	Rural



285	Alappuzha	RWSS TO DEVIKULANGARA	Rural
286	Alappuzha	RWSS TO PATHIYOOR	Rural
287	Alappuzha	RWSS TO KRISHNAPURAM	Rural
288	Alappuzha	RWSS TO Thrikunnapuzha	Rural
289	Alappuzha	RWSS to Kumarapuram	Rural
290	Alappuzha	RWSS to Karthikappally	Rural
291	Alappuzha	RWSS to Pallipad	Rural
292	Alappuzha	RWSS to Cheppad	Rural
293	Alappuzha	RWSS to Cheruthana	Rural
294	Alappuzha	RWSS tp Chingoli	Rural
295	Alappuzha	UWSS to Harippad	Urban
296	Alappuzha	RWSS to Karuvatta	Rural
297	Alappuzha	UWSS to Chengannur	Urban
298	Alappuzha	Aug of UWSS to Chengannur	Urban
299	Alappuzha	WSS to Pandavanpara	Urban
300	Alappuzha	WSS to Noottavanpara	Urban-Rural
301	Alappuzha	RWSS to Cherianadu	Rural
302	Alappuzha	ARWSS to Cherianadu	Rural
303	Alappuzha	ARWSS to Chennithala, Mannar, Kuruttussey and Thriperumthura villages	Rural
304	Alappuzha	UWSS to Mavelikara	Urban-Rural
305	Alappuzha	ARWSS to Nooranadu, Chunnakkara and adjoining panchayaht	Rural
306	Alappuzha	RWSS to Thekkekkara	Rural
307	Alappuzha	RWSS to Chettikulangara	Rural
308	Alappuzha	RWSS to Vallikunnam	Rural
309	Alappuzha	RWSS to Bharanikavu	Rural
310	Alappuzha	RWSS to Thamarakulam	Rural
311	Alappuzha	RWSS to Thazhakkara	Rural
312	Alappuzha	RWSS to Mararikulam South	Rural
313	Alappuzha	RWSS to Mannancherry	Rural

#### **District wise category of Schemes in Operation – Northern Region**

<b>SI No</b>	<b>District</b>	<b>Name of Scheme</b>	<b>Category</b>
1	Palakkad	UWSS to Ottappalam	Urban
2	Palakkad	BWSS to Murukkumpetta(only during drought season)	Rural
3	Palakkad	BWSS to Pavukonam	Rural
4	Palakkad	BWSS to Pathankulam	Rural



5	Palakkad	BWSS to Tharuvakonam	Rural
6	Palakkad	RWSS to Velliyad	Rural
7	Palakkad	BWSS to Cherukattupulam	Rural
8	Palakkad	BWSS to Nellikurussi	Rural
9	Palakkad	RWSS to Akavanda	Rural
10	Palakkad	RWSS to Ambalappara	Rural
11	Palakkad	Cwss to Mannarkkad & Thenkara	Urban-Rural
12	Palakkad	RWSS to Karimba	Rural
13	Palakkad	RWSS to Thachanattukara	Rural
14	Palakkad	CWSS to Karakkurissi & Adj. Panchayaths	Rural
15	Palakkad	CWSS to Sreekrishnapuram & adj. Panchayaths	Rural
16	Palakkad	RWSS to Karimpuzha(only during drought season)	Rural
17	Palakkad	RWSS to Cherppulassery	Urban
18	Palakkad	RWSS to Nellya-Kulukkallur	Rural
19	Palakkad	RWSS to Vilavur-Koppam	Rural
20	Palakkad	RWSS to Thiruvegappara	Rural
21	Palakkad	RWSS to Paruthur	Rural
22	Palakkad	TWSS to Kallivalappil(works during drought season)	Rural
23	Palakkad	TWSS to karambathur(only during drought season)	Rural
24	Palakkad	RWSS to Muthuthala	Rural
25	Palakkad	RWSS to Ongallur,vallapuzha	Rural
26	Palakkad	TWSS to Kondoorkkara	Rural
27	Palakkad	TWSS to manjalungal	Rural
28	Palakkad	TWSS to Perumbilavilppadi	Rural
29	Palakkad	TWSS to Maruthur	Rural
30	Palakkad	TWSS to Muthuthala (Zone II)	Rural
31	Palakkad	TWSS to Tharakkalpadi	Rural
32	Palakkad	TWSS to Kuruvattur	Rural
33	Palakkad	UWSS to ShornurMunicipality&vaniya mkulam Panchayath	Urban-Rural
34	Palakkad	CWSS to Anakkara, Pattithara & Kappur Panchayath	Rural
35	Palakkad	RWSS to Mundaya	Rural
36	Palakkad	TWSS to Ponnathamthara	Rural

37	Palakkad	BWSS to Nagalassery	Rural
38	Palakkad	TWSS to Kanayam(only emergency time)	Rural
39	Palakkad	Pokkanpara pressure filter scheme	Urban
40	Kozhikode	CWSS to Koyilandy and Adj Pt	Rural
41	Kozhikode	RWSS to Narakkankunnu(Non WTP)	Rural
42	Kozhikode	RWSS to Ponpara & Moyorkunnu (Non WTP)	Rural
43	Kozhikode	RWSS to Perambra(Non WTP)	Rural
44	Kozhikode	RWSS to Kayanna	Rural
45	Kozhikode	RWSS to Paleri	Rural
46	Kozhikode	RWSS to Chakkittapara	Rural
47	Kozhikode	WSS to Kappumala Kaipram	Rural
48	Kozhikode	BWSS & Augmentation to BWSS	Urban
49	Kozhikode	ARWSS to Thruvallur ayanchery	Rural
50	Kozhikode	WSS to Onchiyam, Chorode	Rural
51	Kozhikode	TM-ARWSS to Azhiyur	Rural
52	Kozhikode	RWSS to Madappalli	Rural
53	Kozhikode	WSS to Payamkuttimala	Rural
54	Kozhikode	BWSS	Urban
55	Kozhikode	Kunnummal and Adjoining & Villages	Rural
56	Kozhikode	WSS to Onchiyam, Chorode etc villages	Rural
57	Kozhikode	WSS to Malayil OLHC	Rural
58	Kozhikode	RWSS to Chekiad	Rural
59	Kozhikode	RWSS to Bhoomivathukal	Rural
60	Kozhikode	WSS to Aduppil Kettil	Rural
61	Kozhikode	WSS to Kollam	Urban
62	Kozhikode	WSS to Kakrattukunnu	Urban
63	Kozhikode	WSS to Komathukara	Urban
64	Kozhikode	WSS to Varakunnu	Urban
65	Kozhikode	WSS to Neelancherymala	Rural
66	Kozhikode	ARWSS to Unnikulam & Sivapuram	Rural
67	Kozhikode	WSS to Atholi	Rural
68	Kozhikode	WSS to Pullilamala	Rural
69	Kozhikode	WSS to Payyoli	Urban

70	Kozhikode	SCP-WSS to Kottakunnu	Urban
71	Kozhikode	WSS to Kottathuruthi	Urban
72	Kozhikode	RWSS to Pottankandy	Rural
73	Kozhikode	RWSS to Moozhikkal Meethal	Urban
74	Kozhikode	RWSS to	Rural
75	Kozhikode	SCP-WSS to Kidanjikunnu	Rural
76	Kozhikode	SCP-WSS Moiloorkunnu	Rural
77	Kozhikode	RWSS to Mappayur Town Improvement	Rural
78	Kozhikode	RWSS to Pootheripara	Rural
79	Kozhikode	RWSS to Dharmakunnu, Nedumbrakunnu	Rural
80	Kozhikode	RWSS to Kottakunnu, Rarayatakunnu & Puthupatakunnu	Rural
81	Wayanad	WSS to Poothady	Rural
82	Wayanad	WSS to Ambalavayal	Rural
83	Wayanad	WSS to Bathery Noolpuzha Panchayath	Urban-Rural
84	Wayanad	CWSS to Pulpally & Mullankolly Panchayath	Rural
85	Wayanad	WSS to Krishnagiri, Purakkady and Ambalavayal Villages	Rural
86	Wayanad	ARWSS to Vemom, Nellurnadu and Porunnannur	Urban
87	Wayanad	ARWSS To Thirunelly	Rural
88	Wayanad	WSS to Panamaram (Anchukunnu& kuppethodu Villages)	Rural
89	Wayanad	NABARD assisted WSS to Manathavady, Edavaka and Nallooradu Villages	Urban-Rural
90	Wayanad	ARWSS to Kaniyambetta	Rural
91	Wayanad	UWSS to Kalpetta	Urban
92	Wayanad	RWSS to Muttill one I, III & IV	Rural
93	Wayanad	RWSS to Vythiri	Rural
94	Wayanad	RWSS to Moopainad	Rural
95	Wayanad	RWSS to Pinangode	Rural
96	Wayanad	ARWSS to Padinjarathara &Thariode Villaged	Rural
97	Wayanad	WSS to Gandhinagar	Rural
98	Wayanad	WSS to Chundale	Rural
99	Wayanad	WSS to Valliyoorkavu	Urban

100	Wayanad	WSS to Pottankolly	Urban
101	Wayanad	WSS to Thirunelly Temple and surrounding tribal colonies	Rural
102	Wayanad	WSS to Sasimala	Rural
103	Wayanad	WSS to Vellamunda	Rural
104	Wayanad	WSS to Seethamound	Rural
105	Malappuram	CRWSS to Tirurangaddi	Urban
106	Malappuram	CRWSS to Tirurangaddi (East Zone of Tirurangadi)	Urban
107	Malappuram	ARWSS to ARN agar Ppanchayat	Rural
108	Malappuram	WSS to Kannamangalam	Rural
109	Malappuram	ARWSS to urakam/Vengara/Parappur Pts.	Rural
110	Malappuram	ARWSS to Munniyur, thenhippalam, Chelembra and Peruvallur Panchayats(M/T/C/P)	Rural
111	Malappuram	CRWSS to Parappanangadi , Vallikunnu Panchayaths	Urban-Rural
112	Malappuram	UWSS to Nilambur	Urban-Rural
113	Malappuram	ARWSS to Amarambalam	Rural
114	Malappuram	ARWSS to Edakkara	Rural
115	Malappuram	WSS to Padinjattumpadam	Rural
116	Malappuram	UWSS Manjeri	Urban
117	Malappuram	UWSS to Anakkayam & Panthallur Village	Urban-Rural
118	Malappuram	RWSS to Mampad	Rural
119	Malappuram	Nabard aided WSS to Areacode	Rural
120	Malappuram	ARWSS to Urangattiri	Rural
121	Malappuram	ARWSS to Keezhuparamba	Rural

122	Malappuram	ARWSS to Kavanoor	Rural
123	Malappuram	RWSS to Kodur ( Konkayam, Nooradi & TWSS Parayarangadi)	Rural
124	Malappuram	RWSS to Koottilangadi	Rural
125	Malappuram	RWSS to Padinhattumuri ,(Mothi & Unnamthala)	Rural
126	Malappuram	RWSS to Mundayilpadi	Rural
127	Malappuram	RWSS to Makkaraparamba	Rural
128	Malappuram	CARWSS to Moorkanad and adjoining villages	Rural
129	Malappuram	WSS to Othukkungal and Ponmala Panchayaths	Rural
130	Malappuram	UIDSSMT- MWSS to Malappuram Municipality	Urban
131	Malappuram	MWSS to Malappuram Municipality	Urban
132	Malappuram	MWSS to Malappuram - Hajiyarpalli	Urban
133	Malappuram	UWSS to Perinthalamanna Municipality and Adjoining Panchayaths ( Angadipuram, Elamkulam and Pulamanthole)	Urban-Rural
134	Malappuram	RWSS to Thazhekode	Rural
135	Malappuram	ARWSS to Wandoor	Rural
136	Malappuram	RWSS to Kalikavu	Rural
137	Malappuram	ARWSS to Thuvvur	Rural
138	Malappuram	RWSS to Pandikkad	Rural
139	Malappuram	CARWSS to Moorkanad and adjoining villages	Rural
140	Malappuram	TWSS to Mankada ( near Karkkidakam Thodu and Karkkidakam School compound	Rural

141	Malappuram	CARWSS to Cheeckode and Adjoining Villages	Rural
142	Malappuram	WSS to Kuzhimanna & Muthuvalloor Panchayaths	Rural
143	Malappuram	UWSS to Tirur	Urban-Rural
144	Malappuram	CARWSS to Thirunavaya and Adj Pt	Rural
145	Malappuram	RWSS to Kottakkal Parapur	Urban-Rural
146	Malappuram	Jalanidhi WSS to Thenmala, Perumana Clari and Ozhur Pt	Rural
147	Malappuram	ARWSS to Valanchery & Kalpakanchery	Rural
148	Malappuram	UWSS to Ponnani and ARWSS to Ezhuvathiruthy and Adj pts	Urban-Rural
149	Malappuram	RWSS to Ponnani	Urban
150	Malappuram	RWSS tp Palapetty	Rural
151	Malappuram	DWSS to Edappal and adj pt	Rural
152	Malappuram	RWSS to OthuKKungal	Rural
153	Malappuram	RWSS to Irimillyam Valancherry	Urban-Rural
154	Kannur	WSS to Kannur Adjoining Panchayaths	Urban-Rural
155	Kannur	RWSS to Kunnumai Ambedkar colony	Rural
156	Kannur	RWSS to Valapattanam	Rural
157	Kannur	RWSS to Kattamballi	Rural
158	Kannur	RWSS to Chirakkal	Rural
159	Kannur	WSS to Edakkad Zone -I	Urban
160	Kannur	NABARD Assisted WSS to Edakkad Zone	Urban
161	Kannur	ARWSS to Edakkad Zone -II	Urban
162	Kannur	RWSS - Nilappanakunnu SC Colony	Rural
163	Kannur	RWSS - Eachur SC Colony	Rural
164	Kannur	RWSS - Varam Thakkalipeedika	Urban

165	Kannur	WSS to Kannur	Urban
166	Kannur	WSS to Kannur	
167	Kannur	RWSS to Ayippuzha-kalapara	Rural
168	Kannur	RWSS to Kallur SC Colony	Urban
169	Kannur	Kolachery Water Supply Scheme	Rural
170	Kannur	CRWSS to Kolachery	Rural
171	Kannur	ARWSS TO KEZHOOOR AND CHAVASSERY	Urban
172	Kannur	RWSS TO IRITTY	Rural
173	Kannur	RWSS TO KARIKKOTTAKKARI	Rural
174	Kannur	RWSS TO ASANKUNNU	Rural
175	Kannur	RWSS TO PARACKAMALA	Rural
176	Kannur	RWSS TO AYIRAKKALAM	Rural
177	Kannur	RWSS TO VILAMANA	Rural
178	Kannur	RWSS TO KOLIKADAVU	Rural
179	Kannur	RWSS TO MUNDAYAMPARAMBA	Rural
180	Kannur	RWSS TO METELE PUNNAD	Urban
181	Kannur	RWWSS To Sankarankandy	Rural
182	Kannur	WSS to Anjarakandy Peralassery and adjoining pts.	Rural
183	Kannur	WSS to Anjarakandy Peralassery and adjoining pts.	Urban-Rural
184	Kannur	WSS to Thalassery, Mahi and Dharmadam	Urban-Rural
185	Kannur	ARWSS to Mangattidam Zone II	Rural
186	Kannur	WSS to Eruvatty	Rural
187	Kannur	ARWSS to Anjarakandy	Rural
188	Kannur	WSS to Kuthuparamba, Kottayam, Pattiyam CT Scheme	Urban-Rural
189	Kannur	RWSS to Peravoor	Rural
190	Kannur	RWSS to Kelakam	Rural
191	Kannur	RWSS to Kottiyoor	Rural
192	Kannur	RWSS to Adakkathodu	Rural
193	Kannur	RWSS to Perunthanam	Rural
194	Kannur	RWSS to Valayamchal	Rural

195	Kannur	Rwss to Nananipoyil	Rural
196	Kannur	RWSS to Kottakunnu	Rural
197	Kannur	RWSS to Muzhakunnu	Rural
198	Kannur	RWSS to Manjalapuram Vazhikudimala	Rural
199	Kannur	RWSS to Trippangottoor	Rural
200	Kannur	RWSS to Panoor Mokeri Zone- I	Rural
201	Kannur	RWSS to Panoor Mokeri Zone- II & III	Urban
202	Kannur	RWSS to Kannavam	Rural
203	Kannur	RWSS to Kottayam Mouveri	Rural
204	Kannur	AUWSS to Panniyannur Town	Rural
205	Kannur	WSS to Dharmadam	Rural
206	Kannur	RWSS to Paral	Urban
207	Kannur	ARWSS to Kodiyei Zone I	Rural
208	Kannur	RWSS to Kurichiyil	Rural
209	Kannur	TWSS to Illath thazha - Kuttimakkool	Urban
210	Kannur	RWSS to Chokly	Rural
211	Kannur	RWSS to Kariyad	Urban
212	Kannur	ARWSS to Kodiyei Zone II	Urban
213	Kannur	RWSS to Vayalalam Parsikkunnu	Urban
214	Kannur	Thalassery Water Supply Scheme	Urban
215	Kannur	JICA aided WSS to Pattuvam and Adjoining Village	Urban-Rural
216	Kannur	RWSS to Arimbra	Rural
217	Kannur	RWSS to Chempei & Ambazhathumchal	Rural
218	Kannur	RWSS to Ettupara	Rural
219	Kannur	RWSS to Payyavoor	Rural
220	Kannur	RWSS to Pooparamba	Rural
221	Kannur	RWSS to Valakkai	Rural
222	Kannur	RWSS to Vathilmada	Rural
223	Kannur	ARWSS to Padiyur and vayathur village zone -II ( Koottupuzha Intake)	Rural
224	Kannur	WSS to Irikkur & Adjoining Villages	Urban-Rural



225	Kannur	ARWSS to Padiyur and vayathur village zone -1	Rural
226	Kannur	JICA aided WSS to Pattuvama and adjoining villages	Urban-Rural
227	Kannur	RWSS to Kallody	Rural
228	Kannur	RWSS to Kottayad	Rural
229	Kannur	RWSS to Karthikapuram	Rural
230	Kannur	RWSS to Naduvi	Rural
231	Kannur	RWSS to Alakode	Rural
232	Kannur	RWSS to Thaliparamba	Rural
233	Kannur	JICA aided WSS to Pattuvam and Adjoining Village	Urban-Rural
234	Kannur	RWSS to Karakkunnu	Rural
235	Kannur	WSS to Pattuvam and Adjoining Village Ezhome GP	Rural
236	Kannur	WSS to Pattuvam and adj villages Kadannappalli Panappuzh GP	Rural
237	Kannur	RWSS to Ezhome	Rural
238	Kannur	WSS to Madayi (JICA Connected)	Rural
239	Kannur	RWSS to Cheruthazham SC Colony	Rural
240	Kannur	RWSS to Edatt Valluva Colony	Rural
241	Kannur	RWSS to Kunhimangalam	Rural
242	Kannur	RWSS to Ezhilod Chakliya colony	Rural
243	Kannur	RWSS to Kottayad	Rural
244	Kannur	RWSS to Kuttur	Rural
245	Kannur	WSS to Naval Academy	Rural
246	Kannur	WSS to RTC III CRPF - Peringome	Rural
247	Kannur	WSS to Ramanthaly	Rural
248	Kannur	RWSS to Ettikulam	Rural
249	Kannur	WSS to Payyannur (JICA)	Urban
250	Kasaragod	WSS to BRDC	Rural
251	Kasaragod	WSS to Madikai	Rural

252	Kasaragod	ARWSS to Malom	Rural
253	Kasaragod	Kodom-Belur	Rural
254	Kasaragod	MWSS to Melabara	Rural
255	Kasaragod	MWSS to Velutholi	Rural
256	Kasaragod	RWSS to Ajanur	Rural
257	Kasaragod	RWSS to Gandhipuram	Rural
258	Kasaragod	RWSS to Kanhangad	Urban
259	Kasaragod	MWSS to veleshwaram	Rural
260	Kasaragod	RWSS to Panathady	Rural
261	Kasaragod	WSS to West Eleri	Rural
262	Kasaragod	MWSS to Mouveni	Rural
263	Kasaragod	RWSS to Olevara	Rural
264	Kasaragod	RWSS to Kannamkai Edakai	Rural
265	Kasaragod	RWSS to Vayalodi	Rural
266	Kasaragod	RWSS to Barma	Rural
267	Kasaragod	RWSS to Trikaripur	Rural
268	Kasaragod	RWSS to Meeliyat	Rural
269	Kasaragod	MWSS to Madhuramkai	Rural
270	Kasaragod	MWSS to Kunathur	Rural
271	Kasaragod	RWSS to Mundakandam	Rural
272	Kasaragod	RWSS to Maicha	Rural
273	Kasaragod	RWSS to Madikunnu	Rural

274	Kasaragod	RWSS to Kadangod	Rural
275	Kasaragod	RWSS to Achamthuruthy	Rural
276	Kasaragod	RWSS to Kaithakkad	Rural
277	Kasaragod	RWSS to Karyamkod Thottumpuram	Rural
278	Kasaragod	MWSS to Chathamath	urban
279	Kasaragod	MWSS to Karuvachery	urban
280	Kasaragod	RWSS to Kayyur	urban
281	Kasaragod	RWSS to Nileshtar	Rural
282	Kasaragod	RWSS to Purathekal	urban
283	Kasaragod	RWSS to Trikaripur Kadappuram	urban
284	Kasaragod	MWSS to Oriyera	Rural
285	Kasaragod	MWSS to Panniyerinhakolly	Rural
286	Kasaragod	MWSS to Mattalai	Rural
287	Kasaragod	WSS to KayyurCheemeni	Rural
288	Kasaragod	RWSS to Enmakaje & Adjoining Villages	Rural
289	Kasaragod	ARWSS to Badiadka & Neerchal villages	Rural
290	Kasaragod	RWSS to Munnad, Bedadka & Kuttikkol villages	Rural
291	Kasaragod	MWSS to Baradka	Rural
292	Kasaragod	RWSS to Muliya	Rural
293	Kasaragod	MWSS to Karivedakam	Rural
294	Kasaragod	TWSS to Kuthaje	Rural
295	Kasaragod	MWSS to Kalladakkutty	Rural

296	Kasaragod	Kasaragod W/s Scheme	Urban-Rural
297	Kasaragod	RWSS to Madhur	Rural
298	Kasaragod	RWSS to Mogralputhur	Rural
299	Kasaragod	MWSS to Pernadka	Rural
300	Kasaragod	RWSS to Paravandukka & Melparamba	Rural
301	Kasaragod	TWSS to Chattanchal	Rural
302	Kasaragod	MWSS to Thekkilparamaba	Rural
303	Kasaragod	TWSS to Bendichal	Rural
304	Kasaragod	TWSS to Kombanadukkam	Rural
305	Kasaragod	RWSS to Cherkala	Rural
306	Kasaragod	TWSS to Paikka	Rural
307	Kasaragod	TWSS to Indira Nagar	Rural
308	Kasaragod	MWSS to Koppa	Rural
309	Kasaragod	ARWSS to Vorkady and adjoining villages	Rural
310	Kasaragod	ARWSS to Uppala and adjoining villages	Rural
311	Kasaragod	RWSS to Bambrana and Koipady	Rural
312	Kasaragod	MWSS to Hosabettu-GPM College road, TWSS to Chowki	Rural
313	Kasaragod	RWSS to Vamanjur Kaje	Rural
314	Kasaragod	TWSS to Kadambar	Rural
315	Kasaragod	TWSS to Shantipallam-I	Rural
316	Kasaragod	TWSS to Shantipallam-II	Rural

317	Kasaragod	TWSS to Peruvad	Rural
318	Kasaragod	TWSS to Mavinakatta	Rural
319	Kasaragod	RWSS to Kumbala-near Police Quarters	Rural
320	Kasaragod	RWSS to Manjeshwar	Rural
321	Kasaragod	TWSS to Ichilamkod	Rural
322	Kasaragod	MWSS to Olayam	Rural
323	Kasaragod	TWSS to Bangara Manjeshwar-Angadipadavu	Rural
324	Kasaragod	TWSS to Kunjathur	Rural
325	Kasaragod	TWSS to Pappamkoyanagar	Rural
326	Kasaragod	TWSS to Peral Kannur	Rural
327	Palakkad	RWSS to Kodumbu	Rural
328	Palakkad	RWSS to Pirayiri	Rural
329	Palakkad	RWSS to Poolampara	Rural
330	Palakkad	RWSS to Marutharoad	Rural
331	Palakkad	PWSS to Palakkad	Rural
332	Palakkad	CTWSS to Chittur	Urban-Rural
333	Palakkad	WSS Thathamangalam Municipality	Urban-Rural
334	Palakkad	UWSS to Koduvayur Puduragaram Panchayath	Rural
335	Palakkad	UIDSSMT to Chittur Thathamangalam Municipality	Urban-Rural
336	Palakkad	RWSS to Pattanchery	Rural
337	Palakkad	RWSS to Perumatty Panchayath	Rural
338	Palakkad	RWSS to Perumatty and Pattanchery Panchayath	Rural
339	Palakkad	CWSS to Perumatty and Pattanchery Panchayath	Rural
340	Palakkad	CARWSS to Kozhinjampara and adjoining villages	Rural
341	Palakkad	RWSS tp Veerampotta and Venthapalayam	Rural

342	Palakkad	RWSS to Nattukal Pump house	Rural
343	Palakkad	CWSS to Pothundy	Urban-Rural
344	Palakkad	RWSS to Mundiyan kavu	Rural
345	Palakkad	RWSS to Mattaya	Rural
346	Palakkad	CWSS to Meenkara	Rural
347	Palakkad	RWSS to Neduvenchira	Rural
348	Palakkad	RWSS to Kizhakkenchery	Rural
349	Palakkad	RWSS to Kannambra	Rural
350	Palakkad	RWSS to Puducode	Rural
351	Palakkad	RWSS to Tarur	Rural
352	Palakkad	CWSS to Kannadi, Kuzhalmannam & Thenkurussi	Rural
353	Palakkad	CWSS to Peringottukurussi & Kuthanur	Rural
353	Kozhikode	ARWS Koduvally	Rural
353	Kozhikode	WSS Madavoor	Rural
353	Kozhikode	WSS Kizhakothe	Rural
353	Kozhikode	RWS Koduvally	Rural
353	Kozhikode	WSS Thamarassery	Rural
353	Kozhikode	RWSS Mukkam	Rural
353	Kozhikode	WSS Nellikampoyil	Rural
353	Kozhikode	RWSS Thiruvambady	Rural
353	Kozhikode	RWSS to Kodenchery	Rural
353	Kozhikode	WSS Koovappara-Malamkunnu	Rural
353	Kozhikode	RWSS to Chathamangalam	Rural
353	Kozhikode	TWSS to Thachampoyil	Rural
353	Kozhikode	TWSS Kayyellikkal	Rural
353	Kozhikode	TWSS KTC Estate	Rural
353	Kozhikode	RWSS to Kodiyathoor	Rural
353	Kozhikode	RWSS to Cheruvatta	Rural
353	Kozhikode	RWSS to Aduvad	Rural
353	Kozhikode	RWSS to Kayalam	Rural
353	Kozhikode	RWSS to Koodathumpoyil	Rural
353	Kozhikode	RWSS to Thalikulathur	Rural
353	Kozhikode	RWSS to Chettikulam	Rural
353	Kozhikode	RWSS to Kakkodi	Rural
353	Kozhikode	RWSS to Mavoor	Rural
353	Kozhikode	RWSS to Ambramala	Rural
353	Kozhikode	Calicut Water Supply Scheme	Rural

353	Kozhikode	RWSS to Ramanattukara Mun	Urban-Rural
353	Kozhikode	RWSS to Feroke Mun	Urban-Rural
353	Kozhikode	RWS to Kadalundy Pt	Rural

**List of DRW works taken up by KWA(District Wise) during the year 2019-20**

<b>Sl No.</b>	<b>Name of District</b>	<b>Name of Division</b>	<b>Name of Work</b>	<b>AS Amount (in Lakhs)</b>
1	Thiruvananthapuram	PH Division North Trivandrum	Water Supply to Chellamangalam Janantha road from Chellamangalam Junction to house No B-37 by alteration of house connection and abandoning the old AC pipe	2.17
2	Thiruvananthapuram	PH Division North Trivandrum	Water supply arrangements to Belheven Gardens	6.33
3	Thiruvananthapuram	PH Division South Trivandrum	Urgent repair of 200HP pumpset No.8 at Kundmankadavu	2.59
4	Thiruvananthapuram	PH Division South Trivandrum	Providing interconnection at South Nada road at Fort ward under WW Kuriathy section	0.50
5	Thiruvananthapuram	PH Division South Trivandrum	Amount required for repair work at 200PVT pumpset No.5 at Kundamankadavu	3.00
6	Thiruvananthapuram	PH Division South Trivandrum	Replacing existing 150mm GI pipe with 150mm MS pipe at Chirappalam bridge, towards Karamana	1.70
7	Thiruvananthapuram	PH Division South Trivandrum	Urgent maintenance work at Vellayani WTP	3.50
8	Thiruvananthapuram	HW Division Aruvikkara	Providing temporary bund - Kallara	1.00
9	Thiruvananthapuram	HW Division Aruvikkara	Providing temporary bund Palode	1.50
10	Thiruvananthapuram	HW Division Aruvikkara	Removing sludge to clear the mouth of intake channel (Kallara)	0.50
11	Thiruvananthapuram	HW Division Aruvikkara	Additional Pumping to 74 mld TP	2.00

12	Thiruvananthapuram	HW Division Aruvikkara	PAC & Coagulation Aids 86 & 72 mld TPs	10.00
13	Thiruvananthapuram	HW Division Aruvikkara	Repairing of motor No.5 at 72 mld raw water pump house	0.50
14	Thiruvananthapuram	HW Division Aruvikkara	Overhauling and replacing bearings in standby pumps and reduction gears of agitators in chemical house of 86 mld water treatment plant	1.00
15	Thiruvananthapuram	HW Division Aruvikkara	Supply and replacing bearing of bridges and flocculators of clarifier No.1 & 2 at 72 MLD WTP.	1.50
16	Thiruvananthapuram	HW Division Aruvikkara	Replacing damaged Alum tray with already fabricated SS tray in the Raw water channel at 72 MLD WTP (shut down required, SI.No.5 & 6 can be done simultaneously)	0.50
17	Thiruvananthapuram	HW Division Aruvikkara	Preventive maintenance of pump and motor, electrical installations, changing bearings and spares	1.30
18	Thiruvananthapuram	HW Division Aruvikkara	RWPH Aruvippuram - No. standby - 2 Now, 150 HP VT pump set are working, 1 No. 180 HP VT pump set - not working do to difunct starter (repair works in progress).	0.50
19	Thiruvananthapuram	HW Division Aruvikkara	CWPH Thengumkode - No standby - 1 No 100 HP CF pump set not working due to broken shaft. (repair works in progress).	0.75
20	Thiruvananthapuram	HW Division Aruvikkara	Providing WS extension under Uzhamalakkal Panchayath	10.10
21	Thiruvananthapuram	WS Division Neyyantinkara	Procurement of electrical items for urgent electrical maintenance works	3.00
22	Thiruvananthapuram	WS Division Attingal	Providing temporary bund across Vamanapuram river at Poovanbara- rising the height of existing concrete bund	3.16
23	Thiruvananthapuram	WS Division Attingal	A RWSS to Kilimanoor , Pazhayakunnummel & Madavoor - Providing a temporary bund across Vamanapuram river near Vamanapuram Bridge	2.65



24	Thiruvananthapuram	WS Division Attingal	Improving water supply- conveying lifting 5 HP pump set in Vamanapuram river for pumping water from river to infiltration gallery of Nagaroor pump house	0.06
25	Thiruvananthapuram	WS Division Attingal	Servicing of 8 Nos various sizes centrifugal and and submersible pump set including its conveyance charges to and fro from section store Attingal to work shop	0.34
26	Thiruvananthapuram	WS Division Attingal	Errection of 3 Nos. of 5 HP submersible pump set at AWSS to Attingal raw water pump house	0.35
27	Thiruvananthapuram	WS Division Attingal	Mace. of CWSS to Varkala and adjoining Villages- Transformer no: 1 repair and other connected works at Thettikkulam Pump house. IR no:868782	0.73
28	Thiruvananthapuram	WS Division Attingal	MACE of R W S S to Edava- Thottumugham pumphouse- Rewinding,Repairing and errecting 20 HP openwell submersible motor and supplying specials for the work	0.55
29	Thiruvananthapuram	WS Division Attingal	MACE of R W S S to Edava-20HP Submersible motor Rewinding,Repairing and other connected works	0.55
30	Thiruvananthapuram	WS Division Attingal	CWSS to Varkala and adjoining panchayaths- RE-ASSEMBLING OF 200HP WPIL- MAKE 6 STAGE PUMP , Replacing damaged spherical roller thrust bearing and rectifying damages on clutch assembly and other connected works in RAW water pump house Puzhakkadavu	2.76
31	Thiruvananthapuram	WS Division Attingal	Mace of CWSS to Varkala and adjoining panchayaths- rewinding of 100HP VT pump set and other connected works at Puzhakkadavu RAW water pump house.	1.40

32	Thiruvananthapuram	WS Division Attingal	ARWSS to Karavaram- Servicing, Conveying and erection of 5 HP pump set into the river at Kattapparambu pump house for summer pumping and lifting and connected works after drought.	0.29
33	Thiruvananthapuram	WS Division Attingal	ARWSS to Karavaram- Interconnection work at Kadavila - Kattaparambu - Pulluthottam road	0.25
34	Thiruvananthapuram	WS Division Attingal	CWSS to Navaikulam - - Supplying and fixing 65mm GM valve near Vettiyara - Pharmacy road and Edamannila road	0.08
35	Kollam	PH Division Kollam	RWSS To Sooranadu North Supplying and Erection of brand new open well submersible pump ( Horizontal type ) with all accessories at Pathirikkaal pump house in Sooranadu north Grama panchayath	2.5
36	Kollam	PH Division Kollam	Supply of brand new submersible pump set ( Stand by ) at Kandachira pump house	2
37	Kollam	PH Division Kollam	Interconnecting the existing distribution line at Kakkathoppe area in Thekkumbhagom Division of Kollam Corporation for improving the supply in the coastal areas laying 50mm PVC pipe for a length of 250m	1.5
38	Kollam	PH Division Kollam	Mace of Q.W.S.S. to Sasthamcotta - 150 H.P Motor No 1 Change Pump shaft and spider bush repair and erection IR NO.903092 dtd 28/03/2020	0.5
39	Kollam	PH Division Kollam	Vadakkevila area - Providing and laying 75 mm PVC 6 kg pipe line through Pattathilkavu Temple stage compound to Sree Nagar road	0.769
40	Kollam	PH Division Kollam	Installing the pump house motor and pumping mechanism at canal To run canal pump house	1.35
41	Kollam	PH Division Kollam	Supplying brand new submersible 12.5 HP and 15 HP standby pumpset for RWSS to Panayam and RWSS to Perinaad	4.49

42	Kollam	PH Division Kollam	Supplying brand new submersible 10 HP and 15 HP standby pumpset for Thrikkadavoor Zone in Kollam Corporation	4.08
43	Kollam	PH Division Kollam	Supplying and erecting 12.5 HP sub. pump set at Manalil pump house	2.1
44	Kollam	PH Division Kollam	Supply and erection of 15HP pumpset at Mundakkal pumphouse, Mundakkal division, Kollam	2.71
45	Kollam	PH Division Kollam	Interconnection and pipe line extension at Neendakarakkadu to Manakkadavu (300 m)	0.7
46	Kollam	PH Division Kollam	Alappad Grama Panchayat - Extension of 90 mm PVC pipe line from north of Azheekal BSNL office Jn to toward east of Kayalvaram in ward No. 5 - 150 m	1
47	Kollam	PH Division Kollam	Supplying and erecting 12.5HP Sub. Pump house at Kandachira pump house	2.1
48	Kollam	PH Division Kottarakkara	Fixing temporary bund at Intake of Chithara scheme	1.7
49	Kollam	PH Division Kottarakkara	Raw water pump nouse at Kuriyottumala-No.2 Transformer repair, capacitor fixing and starter replacement	2.7
50	Kollam	PH Division Kottarakkara	Supply of bearing tor 185 HP VT pump set at raw water pump house Pookkunnimala	0.35
51	Kollam	PH Division Kottarakkara	Supply of bearing (2 Nos) tor 175 HP VT pump set at raw water pump house Mukkadavu	0.15
52	Kollam	PH Division Kottarakkara	Rectification of leakages 400 mm AC along Parippally Madathara state highway	2.7
53	Kollam	PH Division Kottarakkara	Interconnection work and replacement work of 200mm Damaged MS pumping main using 200mm DI D/F pipe in clear water pump house ,Kareepra	1.2

54	Kollam	PH Division Kottarakkara	Supply & fixing of new shaft instead of damaged pump shaft for 50 Hp C/F pump set at Kareepra and for 150 HP C/F pump set at Kunnikode	0.25
55	Kollam	PH Division Kottarakkara	WTP Pookkunnimala -150HP soft starter panel board repairing	1.2
56	Kollam	PH Division Kottarakkara	Fabricating damaged MS pipe 350/200mm inside pump house Rakkoottukadau	1.5
57	Kollam	PH Division Kottarakkara	Supply of bearing for 185 HP VT pump set at raw water pump house Pookkunnimala	0.35
58	Kollam	PH Division Kottarakkara	Supply of bearing (2 Nos) for 175 HP VT pump set at raw water pump house Mukkadavu	0.15
59	Pathanamthitta	PH Division Pathanamthitta	RWSS to Angady - Providing temporary bund near Angady Intake Pump House for facing upcoming draught	2.5
60	Pathanamthitta	PH Division Pathanamthitta	RWSS to Omalloor - Desilting of Omalloor intake well.	1.28
61	Pathanamthitta	PH Division Pathanamthitta	UWSS to Adoor and Adjoining Panchayaths - Removal of clay and silt from intake well at Kaipattoor	1.72
62	Pathanamthitta	PH Division Pathanamthitta	Cleaning of Intake channel ,gallery and surrounding of intake well Kallarakadavu Row water pump, house of UWSS to Pathanamthitta	0.18
63	Pathanamthitta	PH Division Pathanamthitta	Cleaning of Intake channel ,gallery and surrounding of iElathoor Mallpuzhassery Row water pump, house	0.56
64	Pathanamthitta	PH Division Pathanamthitta	Supply and installation of 1HP submersible pumpset and fixing hydrant for filling water supply tankers	0.25
65	Pathanamthitta	PH Division Pathanamthitta	Supply and installation of 1HP submersible pumpset and fixing hydrant for filling water supply tankers	0.25
66	Pathanamthitta	PH Division Pathanamthitta	Providing temporary bund near Aruvi intake pump house	0.25

67	Pathanamthitta	PH Division Pathanamthitta	Clearing gallery area at Kurumbanmoozhy intake	0.2
68	Pathanamthitta	PH Division Pathanamthitta	Clearing gallery area and leading channel at Angadi intake	0.3
69	Pathanamthitta	PH Division Pathanamthitta	Construction of temporary bund	1.3
70	Pathanamthitta	PH Division Thiruvalla	Urgent Mace of Rws to Thrikodithanam fixing of 2nos of 100 mm valves in 90mm pvc line to chakrathikunnu and 110 mm line to kodinattukunnu	0.05
71	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha-Urgent Desilting work of Intake well and Baby well in Kulathoormoozhy	2.29
72	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha-Providing Temporary check dam near the down stream of manimala River near Kulathoormoozhy intake well cum pump house using sand filled cement bags and repair of existing rubble masonry .	1.68
73	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha-Improving water level in the main well by pumping water from near by KAYAM using diesel engine pump set at kulathoormoozhy from 3.3.20 to 02. 04.20	1.73
74	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha-Improving water level in the main well by pumping water from near by KAYAM using diesel engine pump set at kulathoormoozhy from 3.4.20 to 02. 06.20	3.46
75	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha- supplying and fitting 150 mm N/R Valve , 3 Nos 200 Amper Fuse unit . Power capacitor ( 21KVAR-02 Nos 75 H.P VT Pumpset) and 15KVAR-01 No-30 H.P VT ) and Pressure gauge , Thrust Bearing SKF 7320-01 Nos and SKF-6311 c 3	1

			(Bottam Bearing for 75 H.P V.T 46 ) at intake pump house Kulathoormoozhy	
76	Pathanamthitta	PH Division Thiruvalla	R.W.S.S to Nedumkunnam kangazha- supplying and fitting 50 H.P Oil starter suitable for 50 H.P C/F Pumpset, 160 Amps Change over switch assembly , 160 Ams Main switch and CT Coil ,Volt metr with switch , Ampre meter , Pressere gage and over hauling the pannel board ets complete inclding earthing system at boosting pump house Mulayamvelli.	1
77	Pathanamthitta	PH Division Thiruvalla	CARWSS to Madappally ,Vakathanam and karukachal- Supplying and fitting 150 Ams Mainswitch, 150 Ams Changeover, Volt meter - Ampre meter , Pressere gage, indicater lamp-3 nos , cable from main swith to starter to motor and over hauling the pannel board ets complete at boosting pump house Inchakuzhy thhakidi.	1
78	Pathanamthitta	PH Division Thiruvalla	RWSS to Ayroor - Kanjeetukara - Desilting Intake Pump House at Edappavoor	1.5
79	Pathanamthitta	PH Division Thiruvalla	RWSS to Eraviperror - Erecting an additional 10 Hp open well submersible pump set in Manimala River and laying 110mm PVC Pipe line for improving water level in Intake well of Eraviperror P/H - Aranmula	0.2
80	Pathanamthitta	PH Division Thiruvalla	RWSS to Ayroor - Kanjeetukaa - Re- Conditioning & Repairing of 60 Hp VT Pump set at Intake Well cum Pump House Neelamplavu	1.25
81	Pathanamthitta	PH Division Thiruvalla	RWSS to Mallappally -Repairing, reconditioning and errecting 10HP open well Submersible pump set at Kayam.	0.2
82	Pathanamthitta	PH Division Thiruvalla	ARWSS to Kallooppaara - Rewinding 10HP C/F monoblock motor at WTP,Kallooppaara.	0.4

83	Pathanamthitta	PH Division Thiruvalla	RWSS to Anicadu -Repairing, reconditioning and erecting 10HP open well Submersible pump set at Kayam.	0.2
84	Pathanamthitta	PH Division Thiruvalla	RWSS to Anicadu -Rewinding and reconditioning of 10HP open well Submersible motor at Kayam Anicadu.	0.7
85	Pathanamthitta	PH Division Thiruvalla	Desilting baby well at Sasthamkoickal of RWSS to Perumpara	0.6
86	Pathanamthitta	PH Division Thiruvalla	RWSS to Perumpara -Repairing and reconditioning erection of 25HP open well submersible pumpset baby well Sasthamkoickal.	0.3
87	Pathanamthitta	PH Division Thiruvalla	RWSS to Perumpara -Rewinding, reconditioning of 25HP open well submersible motor at baby well Sasthamkoickal.	0.7
88	Pathanamthitta	PH Division Thiruvalla	RWSS to Perumpara -Supply and fitting 100mm C I Sluice valve PN.1.6 for 30HP VT Pumpset at Sasthamkoickal.	0.25
89	Pathanamthitta	PH Division Thiruvalla	RWSS to Edathua-Replacement of damaged 250mm CI valve near boat jetty-	0.15
90	Pathanamthitta	PH Division Thiruvalla	RWSS to Thakazhy-Replacement of damaged coloumn pipe -6m, at Padaharam tube wel pump house	0.15
91	Pathanamthitta	PH Division Thiruvalla	RWSS to Thakazhy-Inter connection of new tube wel pump house at Thakazhy smaraka UPS	0.25
92	Pathanamthitta	PH Division Thiruvalla	RWSS to Kainakary- Developing tube well at Pallathuruthy North old (including Lifting & Erection of pump set)	0.3
93	Pathanamthitta	PH Division Thiruvalla	RWSS to Nedumudy- Developing tube well at Pulpathra PH (including Lifting & Erection of pump set)	0.3
94	Pathanamthitta	PH Division Thiruvalla	RWSS to Nedumudy -Developing tube well at Chennankary PH (including Lifting & Erection of pump set)	0.3



95	Kottayam	PH Division Kottayam	Procurement of electrical items for urgent electrical maintenance works in Kottayam Division.	3
96	Kottayam	PH Division Kaduthuruthy	ARWSS to Veliyanloor and adjoining villages & CWSS to Vaikom and nearby Panchayaths - 45mld WTP, Mevelloor - Desilting of intake well, well mouth, and leading channel near raw water pump house	3
97	Kottayam	PH Division Kaduthuruthy	ARWSS to Veliyanloor and adjoining villages- Increasing pumping hours at Mattapallikunnu Boosting Pump House	0.6
98	Kottayam	PH Division Kaduthuruthy	ARWSS to Veliyanloor and adjoining villages- Increasing pumping hours at Theradimala Boosting Pump House	0.6
99	Kottayam	PH Division Kaduthuruthy	ARWSS to Veliyanloor and adjoining villages- Increasing pumping hours at Muthukulammala Boosting Station, Kakkanattukunnu Boosting Station	1.5
100	Kottayam	PH Division Kaduthuruthy	ARWSS Vattukulangara, Kadaplamattom schemes - Increasing pumping hours at Vattukulangara, Kadaplamattom	0.8
101	Kottayam	PH Division Kaduthuruthy	ARWSS to Thalayazham - Increasing supply (valve duty)	0.5
102	Kottayam	Project Division Kottayam	CARWSS to Manimala-erection of gravity chlorinator at Manimala and supply to tonner	2.5
103	Kottayam	Project Division Kottayam	CARWSS to Manimala-Alignment changing, repair and maintenance of 350mm DI pumping main at Moongani Kavala	3
104	Kottayam	Project Division Kottayam	WSS to Erumeli panchayat- erection and maintenance of 15HP motor to Kodithottam	0.5
105	Kottayam	Project Division Kottayam	CARWSS to Manimala- Erection of 25HP submersible pumpset to OH tank at Manimala plant for distribution to Vazhoor Zone	0.7



106	Kottayam	Project Division Kottayam	CARWSS to Manimala- Erection of 5HP stand by pumpset to OH tank at Manimala pumphouse for distribution to Vazhoor zone	1.5
107	Ernakulam	PH Division Aluva	Urgent repair work and maintenance work of old treatment plant at Chowara	35
108	Thrissur	PH Division Thrissur	Construction of Leading Channel and sand bunds at Bharathapuzha river near Painkulam Pump House	3
109	Thrissur	PH Division Thrissur	Providing anchor block supports to M S Pipes and New RCC fountation to 214 HP Motor pump set at Engandiyoor Sump Cum Pump House	5
110	Thrissur	PH Division Thrissur	Overhauling of 2 nos 177 HP Centifugal motor pump set at PSA pump house Thrithala	2
111	Thrissur	PH Division Thrissur	Overhauling and rewinding of 30 HP Submersible motor pump set at Gallery well of S2 pump house Thrithala	1.25
112	Thrissur	PH Division Thrissur	Overhauling of 35 HP Submersible motor pump set at Booster pump house at Kootanad.	0.25
113	Thrissur	PH Division Thrissur	Overhauling of 75 HP Centifugal motor pump set at raw water pump house at Thrithala.	0.5
114	Thrissur	PH Division Thrissur	Replacing old damaged 80mm GI with 100mm GI pipe at Choicherikunnu	0.3
115	Thrissur	PH Division Thrissur	Additional shift for pumping	0.5
116	Thrissur	PH Division Thrissur	Additional shift for pumping	0.5
117	Thrissur	PH Division Irinjalakuda	RWSS to Mattathur- Kadambody - Replacement of 75mm PVC Pipe 330 meter	0.7
118	Thrissur	PH Division Irinjalakuda	RWSS to Mattathur& kadambody - Desilting Kodaly pump house	0.35
119	Thrissur	PH Division Irinjalakuda	RWSS to Meloor additional valve operations	0.35

120	Thrissur	PH Division Irinjalakuda	K.M.W.S.S - Renovation of 18 Mld OHSR at Narayanamangalam-Providing MS Stair case in the place of Dismantled damaged stair case and leak rectification work in side of OHSR at Narayanamangalam under P.H Section, Kodungallur	5.5
121	Palakkad	PH Division Palakkad	WSS to Pudukkode-Additional pumping hours'/Valve duty for summer season	0.83
122	Palakkad	PH Division Palakkad	WSS to Tarur-Additional pumping hours/Valve duty for summer season	0.4
123	Palakkad	PH Division Palakkad	WSS to Kizhakkenchery-Additional pumping hours/Valve duty for summer season	0.73
124	Palakkad	PH Division Palakkad	WSS to Kannambra-Additional pumping hours/Valve duty for summer season	0.81
125	Palakkad	PH Division Palakkad	RWSS to Perumatty & Pattancherry(Ayyappamkavu)-Increasing pumping hours and valve control duty	0.3
126	Palakkad	PH Division Palakkad	RWSS to Nallepilly panchayath (Nattukal Pump house)-Increasing pumping hours and valve control duty	0.23
127	Palakkad	PH Division Palakkad	CTWSS to chittur Thathamangalam Municipality - Valve control duty	0.22
128	Palakkad	PH Division Palakkad	CARWSS to Kozhinjampara and adj.villages-Valve control duty	0.23
129	Palakkad	PH Division Palakkad	RWSS to Pirayiri- Pipeline extension, additional pumping and valve duty.	4.5
130	Palakkad	PH Division Palakkad	PWSS to Palakkad- Addtional valve duty	0.9
131	Palakkad	PH Division Palakkad	RWSS to Puduserry- Addtional valve duty	1.05
132	Palakkad	PH Division Palakkad	RWSS to Marutharoad- Addtional valve duty	0.45
133	Palakkad	PH Division Palakkad	RWSS to Kodumbu- Addtional valve duty	0.3
134	Palakkad	PH Division Palakkad	RWSS to Kizhakkencherry-Pipe line extension to kundukad	0.65

135	Palakkad	PH Division Palakkad	CARWSS to Kozhinjanpara and adj pts-Pipe line Extension from challapatha to Boyathara in ward 9 of Kozhinjanpara pt	5
136	Palakkad	PH Division Palakkad	CWSS to Nenmara Grama panchayath- Pipeline extension from Krishnakripa house to Suneesh house by using 50 mm GI pipes at Cherumkadu	0.5
137	Palakkad	PH Division Palakkad	WSS to Tarur –II village- Providing pipe line interconnection to Kolaroad colony – Near Anchangadi – Tarur	0.2
138	Palakkad	PH Division Palakkad	WSS to Kannambra- Providing pipe line interconnection from Kottekkad – Kalleri road to Sudhadevan's House	0.4
139	Palakkad	PH Division Palakkad	CWSS to Kannadi ,Kuzhalmannam and Thenkkurussi- Inter connection of distributiion line in Kuzhalmannam panchayath	2
140	Palakkad	PH Division Palakkad	WSS to Kannambra- Providing pipeline - interlinking work at Kolayakkadu Laksham veedu colony in Kannambra panchayath due to water shortage.	0.27
141	Palakkad	PH Division Palakkad	WSS to Kizhakkenchery- Rewinding repair work of 22.5 HP borewell motor pump set Mampad	0.35
142	Palakkad	PH Division Palakkad	WSS to Perumatty and Pattanchery panchayaths- WSS to Perumatty and Pattanchery panchayaths - replacing existing pipeline from Kizhakkekad to Pattikulam with 160 mm PVC pipe	3.67
143	Palakkad	PH Division Shornur	RWSS to Thiruvegappara- Construction of temperory Bund across Thoothapuzha	0.48
144	Palakkad	PH Division Shornur	RWSS to Vilayoor Koppam- Construction of temperory Bund across Thoothapuzha	0.49
145	Palakkad	PH Division Shornur	WSS to Karakurussi- Supply and install 30 HP starter at Booster at Vazhempuram	1.75

146	Palakkad	PH Division Shornur	CWSS Mannarkkad & Thenkara- Replacing defective distribution valves	2
147	Palakkad	PH Division Shornur	UWSS to Shornur Municipality & Vaniyamkulam Panchayaths- Desilting Intake Well at raw water PH, Shornur	2.62
148	Kozhikode	PH Division Kozhikkode	RWSS to Thiruvambadi - Temporary Bund	1
149	Kozhikode	PH Division Kozhikkode	WTP Mavoor Cleaning and desilting of Clarifier No.1 & 2 of 54.00 MLD Water Treatment Plant at Mavoor	1.8
150	Kozhikode	PH Division Kozhikkode	WTP Mavoor Cleaning and desilting of Clarifier No.3 of 18.00 MLD stage-1 Water Treatment Plant at Mavoor	0.9
151	Kozhikode	PH Division Kozhikkode	WTP Mavoor -leaning and desilting of Clarifier No.1 & 2 of 18.00 MLD stage-2 Water Treatment Plant at Mavoor	1.5
152	Kozhikode	PH Division Kozhikkode	WTP Mavoor Supply of CI Mechanical collars, tapered rubber rings, lead wool, bolts, IR sheets, etc for maintainance works at WTP Mavoor	3
153	Kozhikode	PH Division Kozhikkode	WTP Mavoor Supplying and providing outlet point for tanker lorry filling from the OH Tank of WTP Mavoor	0.3
154	Kozhikode	PH Division Kozhikkode	Supply and erection of 20 HP submercible pump set with automation.	4.75
155	Kozhikode	PH Division Kozhikkode	KOZHICODE JICA WSS- Transportation and erection of floating pumpsets from Aruvikkara (Trivandrum) to Peruvannamuzhi (Kozhikode) for surface level pumping at the source 'Peruvannamuzhi dam	8
156	Kozhikode	PH Division Kozhikkode	ARWSS to Koduvally- Replacing damaged 200mm AC pipe of length 230m at Manipuram in Koduvally Municipality along Kalaranthiri - Karuvanpoyil road	5.2

157	Kozhikode	PH Division Kozhikkode	TWSS to Kayyelickal -Supply and erection of 20HP borewell submercible pump set with all assessories in Thamarasery Panchayath.	4.35
158	Kozhikode	PH Division Vatakara	RWSS to Aduppil - Kettil- Construction of temporary bund at Aduppilkettil	2
159	Kozhikode	PH Division Vatakara	RWSS to Chekkiad -Construction of temporary bund at Chekkiad	0.6
160	Kozhikode	PH Division Vatakara	Aug. of BWSS -BWSS-Replacing damaged NRV and sluice gate valve for improving pumping at raw water Pump house and at WTP and urgent electrical work	6.68
161	Wayanad	PH Division Sultan Bathery	RWSS to Vythiri -RWSS to Vythiri- Cleaning and refilling of the filter media infiltration gallery in Vythiri river	0.94
162	Wayanad	PH Division Sultan Bathery	WSS to Bathery Noolpuzha Panchayath- CWSS TO SULTHAN BATHERY &NOOLPUZHA-Providing temporary bund &desilting of infiltration gallery chamber across Noolpuzha River at RWPS Muthanga	3.5
163	Wayanad	PH Division Sultan Bathery	WSS to Poothady - WSS to poothady desilting well &leading channel at RWPS Mthurvayal	2.68
164	Wayanad	PH Division Sultan Bathery	WSS to Panamaram (Anchukunnu& kuppathodu Villages)- Desilting well at Vilambukandam	2.95
165	Wayanad	PH Division Sultan Bathery	ARWSS To Thirunelly- Desilting well at Palvelichem	2.41
166	Wayanad	PH Division Sultan Bathery	WSS to Panamaram (Anchukunnu& kuppathodu Villages) -Filter cleaning at vilambukandam plant	3.29
167	Wayanad	PH Division Sultan Bathery	RWSS to Vythiri- RWSS to Vythiri- Cleaning and refilling of the filter media infiltration gallery in natural weir at Lakkidi	1.44

168	Wayanad	PH Division Sultan Bathery	UWSS to Kalpetta Municipality - UWSS to to Kalpetta - cleaning gallery & Clarrifloculator at Swargamkunnu palnt	3
169	Malappuram	PH Division Malappuram	UWSS to Nilambur Municipality - Temporary bund at Kalathinkadavu across Chaliyar river	14.2
170	Malappuram	PH Division Malappuram	CARWSS to Moorkanad - Temporary bund at Nilaparamba across Thootha river	14.1
171	Malappuram	PH Division Malappuram	RWSS to Kalikavu- Construction of Temporary bund due to land slide occurred in last flood on the Kuthirapuzha bank near Moorakkayam pump house	5
172	Malappuram	PH Division Malappuram	RWSS to Pandikkad - Temporary bund at Oruvambram across Kadalundi river	9.5
173	Malappuram	PH Division Malappuram	WSS to Padinjattumuri - Temporary bund at Mothi across Kadalundi river	8.3
174	Malappuram	PH Divison Edappal	DAWSS to Edappal adj.pts - Construction of leading channel in Bharathapuzha at Triikkanapuram	3.3
175	Kannur	WS Division Kannur	Construction of Temporary bund across Meruvambayi river	0.35
176	Kannur	WS Division Kannur	Interconnection of existing line to Chakkatilpeedika pump house with Distribution main of Pallikkunnu.	1.2
177	Kannur	WS Division Kannur	Interconnection of existing supply line to Kunnumkai area with existing pipe line tp Puzhathi Zone at shavapetti junction	0.3
178	Kannur	WS Division Kannur	Pipe line extension along Pillayilthazhe road at Kodiyei 500M	3
179	Kannur	WS Division Kannur	WSS to Anjarakandy Peralassery & adjoining panchayaths -Gap connection work with 75mm 8Kg/cm2 PVC pipe for a length of 280m in Kadankunnu- Edakkandypeedika road, ward VIII in Kadirur anchayath	2

180	Kannur	WS Division Kannur	WSS TO Anjarakandy Peralassery & adjoining panchayaths -Pipeline extension from Edakkad fish market to KEUP School Kadambur panchayath	1.65
181	Kannur	WS Division Thaliparamba	Removing old burnt 33 KV busbar supporting with limp of GCB and supply &refitting newly limp and testing high voltage etc and connecting to 33 KV transformer incoming side including trial run etc complete	4
182	Kannur	WS Division Thaliparamba	Pipe line extension from SS temple road to Panayanthal &and Mahadevagramam to Chedikkal mukku from WSS to Payyanur municipality	5
183	Kannur	WS Division Thaliparamba	Pipe line extension near Keloth School from WSS to Payyanur municipality	2
184	Kasaragod	PH Division Kasargod	KWSS- Construction of Temporary bund at source	9.72
185	Kasaragod	PH Division Kasargod	ARWSS to Malom and Balal Villages- Temporary arrangement for storing of water in the source at Karuvankayam	1.99
186	Kasaragod	PH Division Kasargod	WSS to West Eleri- Providing shutters for concrete weir across Mangod river for the year 2020	0.46
187	Kasaragod	PH Division Kasargod	WSS to Munnad, WSS to Belur and adj villages- Providing shutters to existing weir	0.1
188	Kasaragod	PH Division Kasargod	ARWSS to Badiadukka- Neerchal Villages- Providing shutters to the existing weir	0.57
189	Kasaragod	PH Division Kasargod	ARWSS to Vorkady and adjoining villages- Construction of Temporary bund at source	2.66
190	Kasaragod	PH Division Kasargod	ARWSS to Uppala and Adjoining villages- Providing shutter to the existing weir	1.17
191	Kasaragod	PH Division Kasargod	ARWSS to Malom and Balal Villages- Removing silt in intake well and leading channel at Karuvankayam	1.23



**List of FRW works taken up by KWA(District Wise) during the year 2019-20**

<b>District</b>	<b>Division</b>	<b>Name of Work</b>	<b>AS Amount</b>
Wayanad	PH Division Sultan Bathery	NABARD aided CWSS to Mananthavady, Edavaka and Nallornadu Villages - Providing Protection work to 300mm Pumping main to Hospitalkunnu and Distributin main from Hospitalkunnu OHSR in Mananthavady Municipality	25Lakhs

**KIIFB SCHEMES SUBMITTED TO GOVERNMENT FOR ADMINISTRATIVE SANCTION (District Wise) during the year 2019-20.**

<b>Sl. No</b>	<b>Name of work</b>	<b>District</b>	<b>Scheme submission to GoK details</b>		
1	Water Supply Scheme to A.R NAGAR Grama Panchayath in Malappuram District – Phase II	Malappuram	12-11-2020	2019-20	40.09

**AMRUT- KWA- WATER SUPPLY & SEWERAGE WORKS  
REVISED A.S DURING 2019-20**

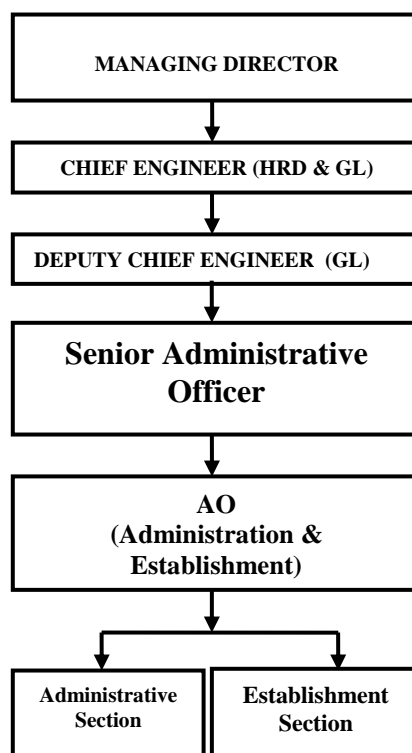
<b>ULB wise No:</b>	<b>SAAP YEAR</b>	<b>NAME OF WORK</b>	<b>AS DATE</b>	<b>AS AMOUNT (in Crores)</b>
<b>KANNUR</b>				
<b>WATER SUPPLY SECTOR</b>				
1	15-16 16-17 17-18	Providing new service connections including water meter (water connections in the works in Pallikkunnu, Puzhathi. Edakkad & Elayavoor zone)	16-12-19	2.92
		<b>TOTAL</b>		2.92
<b>PALAKKAD</b>				
<b>WATER SUPPLY SECTOR</b>				
1	17-18	Augmentation of Water Supply Scheme to Palakkad Municipality - Part III- Package II - Providing Rider main, changing of water connections and replacement of existing AC Pipelines to DI/PVC pipelines in Palakkad Municipality (Revised A.S is now Rs. 85.15 Cr)	03-01-20	30.82
<b>KOLLAM</b>				



WATER SUPPLY SECTOR				
1	17-18	Augumentation of water supply system in Kollam Corporation - Phase I, II & III (Revised A.S is now Rs. 92.08 Cr)	03-01-20	13.73
KOCHI				
WATER SUPPLY SECTOR				
1	16-17	Replacement of 100mm AC pipe line by laying rider line of 160mm PVC at Pandit Karupan road. (Revised A.S is now Rs.1.75 cr)	04-01-20	0.14
2	16-17	Laying of 450mm DI K9 pipe from north end of Aroor Edakochi bridge to water tank at Edakochi. (Revised A.S is now Rs.1.67 cr)	04-01-20	0.15
3	16-17	Laying rider main from kathrikadavu to Elamkulam, Chettichira, Ponnurunni areas and distribution lines in Chakkaraparambu areas. (Revised A.S is now Rs.3.65 cr)	04-01-20	0.40
4	16-17	Laying of 500mm DI transmission line from Pump house at Thammanam to OHSR at Kadavanthara. (Revised A.S is now Rs.7.76 cr)	04-01-20	0.11
		TOTAL		0.80
		TOTAL - WATER SUPPLY		48.27
KOCHI				
SEWERAGE SECTOR				
1	15-16	Rejuvenation of Elamkulam Sewerage Treatment Plant at Kochi. (Revised A.S is now Rs.16.52 cr)	25-01-20	2.82
		TOTAL - SEWERAGE		2.82
		GRAND TOTAL		51.09

## 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:

1. Augmentation and Rehabilitation of Water Supply Scheme to Thiruvananthapuram city Region.
2. Water Supply Scheme to Meenad and adjoining Panchayaths in Kollam District.
3. Water supply scheme to Cherthala Municipality and adjoining Panchayaths in Alappuzha district.
4. Augmentation and Rehabilitation of water Supply Scheme to Kozhikkode City and adjoining Panchayaths.
5. Water Supply Scheme to Pattuvam and adjoining Panchayaths in Kannur district.

#### Key features of the project

6.

Scheme	WTP (MLD)	Transmission Main (km)		Distribution 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
Kozhikkode	174	0.44	123.31	1853	20
Pattuvam	90	11.54	82.00	623	13
<b>Total</b>	<b>516</b>	<b>34.74</b>	<b>408.03</b>	<b>4490</b>	<b>76</b>

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 total installed capacity of all five 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 or sludge blanket clarifier technology 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. Out of 4490 km of distribution lines envisaged in the five schemes, about 4070 km has been laid and remaining to be laid is 420 km (Kozhikode: 352 km and Meenad: 68 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 equipments, 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	95.5
3	Cherthala Scheme	100	100
4	Kozhikkode Scheme	100	96
5	Pattuvam Scheme	100	100

### **Physical progress achieved as on 31/03/2020**

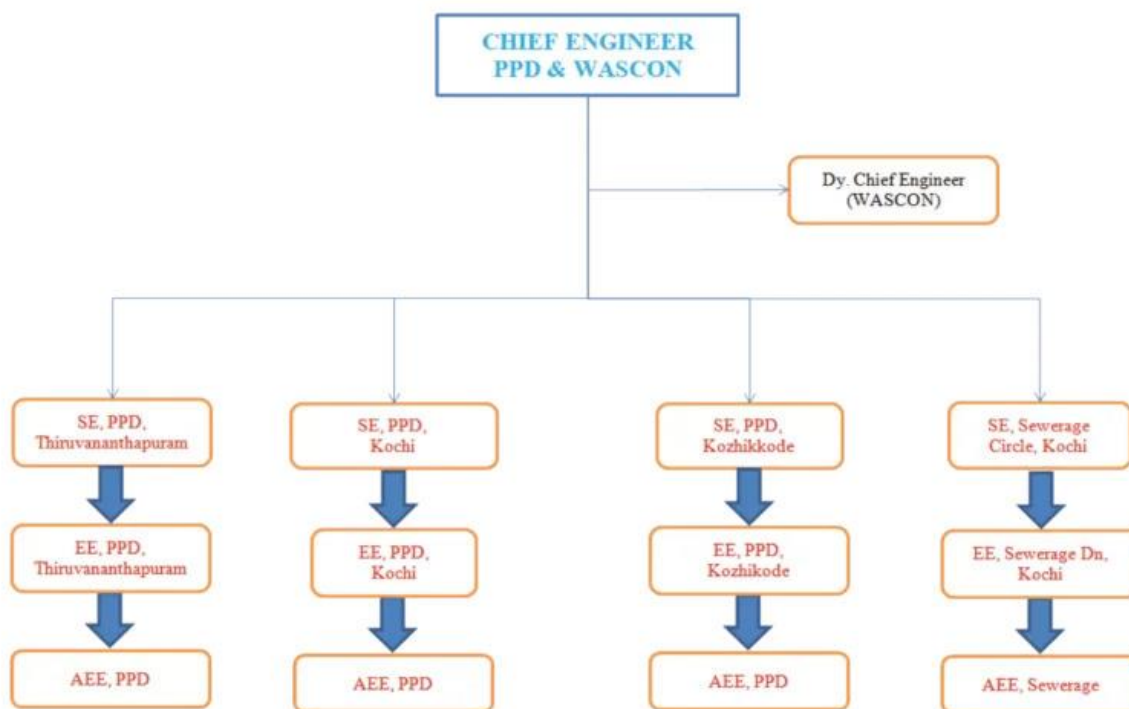
Trivandrum	I	Intake, Raw Water Pipeline and WTP	100%	Completed
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	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	Work terminated & Contract closed	Contract terminated and rearranged as PIII –R1
	III-R1	Distribution Systems-Balance works	100%	Completed
	IV	Service Reservoirs	100%	Completed
	V	Rehabilitation Works of Existing System	95%	Work terminated due to breach of contract and action initiated to rearrange the work.
<b>Meenad</b>	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	Work terminated & Contract closed	Contract terminated and rearranged as PIII –R1
	III-R1	Distribution Systems- Balance works	43.15%	Terminated due to poor progress. Balance work retendered and arranged as new contract P3RR1
	III RR1	Distribution Systems- Balance works	50%	Work in progress. Expected to be completed by December 2020
	IV	Service Reservoirs	100%	Completed
<b>Cherthala</b>	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	
	III	Distribution Systems	100%	
	IV	Service Reservoirs	100%	
<b>Kozhikode</b>	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 closed	Contract terminated and rearranged as PIII –R1 & R2
	III-R1	Distribution Systems -Balance works	64%	Contract closed as on 31.03.2020
	III-R2	Distribution Systems- Balance works	74%	Contract closed as on 31.03.2020
	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	100%	Completed
<b>Pattuvam</b>	I	Intake, Raw Water Pipeline and WTP	100%	Completed
	II	Treated Water Transmission Pipeline	100%	Completed
	III	Distribution Systems	Work terminated & Contract closed	Contract terminated and rearranged as PIII –R1 , R5 & R6
	III-R1	Distribution Systems -Balance works	100%	Completed
	III-R5	Distribution Systems- Balance works	100%	
	III-R6	Distribution Systems -Balance works	100%	
	IV	Service Reservoirs	100%	



## CHAPTER VII PPD & WASCON



WASCON the Consultancy Wing of Kerala Water Authority was set up 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 Jalanidhi Phase I, Jalanidhi 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 done 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 reports.

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. Taking into consideration the importance of sewage treatment across the state, a Sewerage Vertical was created vide Order No. 1279/E2(A)/2020/KWA dated 07/07/2020. The CE(PPD&WASCON) is designated as the head of the newly formed Sewerage Vertical and four Sewerage circle offices at Thiruvananthapuram, Kochi, Thrissur and Kozhikkode with Sewerage Camp Offices in 14 districts. For this purpose, Sewerage Circle, Kochi earlier created vide KWA/JB/E2(A)/1279/2020 dated 03/02/2020, to co-ordinate, execute and maintain sewerage works across Kerala was clubbed with existing PPD Regional offices at Thiruvananthapuram, Kochi and Kozhikkode to form four Sewerage Circles at Thiruvananthapuram, Kochi, Thrissur and Kozhikkode. SE, PPD Tvpm will function as SE, Sewerage Circle, Thiruvananthapuram with Thiruvananthapuram, Kollam and Pathanamthitta as the districts under its jurisdiction. SE, Sewerage Circle, Kochi will have Kottayam, Alappuzha, Idukki and Ernakulam districts. The SE, PPD, Kochi would function as SE, Sewerage Thrissur, and have districts Thrissur, Malappuram and Palakkad under its jurisdiction. SE, PPD, Kozhikkode will function as SE, Sewerage Circle, Kozhikkode and would have Kozhikkode, Kannur, Wayanad and Kasargod under its control. The sewerage duties entrusted with regular PPD Regional offices are additional duties.

### **List of works of PPD&WASCON during 2019-20**

#### **CE's Office, PPD&WASCON**

- 1 KIIFB - 2017-18 CWSS to Perumatty, Pattanchery, Nalleppully in Palakkad district. Structural design and drawing approval for 17.5 LL OHSR at Chamiyarkalam in Perumatty - Design charges.
- 2 NABARD RIDF XX - WSS to Konni Medical College in Pathanamthitta district- Construction of 6.00 m dia Intake well cum pump house - Structural design and drawing approval for approach bridge for well cum pump house at Sanchayathkadavu and verification charges.

- 3 KIIFB - 2017-18 CWSS to Perumatty, Pattanchery, Nalleppully in Palakkad district. Structural design and drawing approval for 16LL OHSR at Nalleppully.
- 4 AMRUT - WSS to Guruvayoor Municipality in Thrissur district - Design of 10 LL OHSR at Chakkamkandam.
- 5 CWSS to Manimala and adjoining panchayaths in Kottayam District - Distribution network of Phase I Zone I, Phase II Zone III and Phase III - Design report.
- 6 KIIFB - Augmentation and Modernisation of Water Supply distribution system in Alappuzha Municipality - Construction of 3 OHSRs - Design - 12 LL OHSR at Kalavoor.
- 7 NRDWP - Comprehensive Water Supply Scheme to Agali, Sholayar and Pudur Panchayath in Mannarkkad Taluk in Palakkad District - Phase I - Design of Intake Well cum pump house - 5 LL Booster Sump and Pump house - Design charges.
- 8 WSS to Kalluvathukkal, Parippally and Velinalloor (Part) villages of CW pumping main and Distribution network of DMA I to V, DMA VI to VII and DMA VIII
- 9 WSS to Mangode and adjoining wards of Pathanapuram panchayath - DER Design charges of CWPM, CWGM and distribution network of DMA - I, DMA II, DMA III and DMA III A
- 10 AMRUT - Water Supply 2015-16 & 2016-17 Improvement of TWSS - Construction of 75 MLD WTP at Aruvikkara - Design of 75 MLD WTP at (Wash water settling tank and Substation building) - Design charges
- 11 CWSS to Ettumanoor & adjoining villages in Kottayam district - Design of 8LL capacity OHSR at Nalpathimala - Design charges.
- 12 NABARD - RIDF - XXII - RWSS Arakuzha and Palakuzha Panchayath - 5.50 MLD WTP and 3.50 LL capacity Sump - Design charges.
- 13 WSS to Kollamula village in Pathanamthitta district - Phase II - Distribution Network (incorporated with deviation over Phase I) - DER - Design charges of distribution network at Olikkal, Thalamuttiyani, Pampirikumpara and Ponachi zones.
- 14 KIIFB - Augmentation and Modernisation of Water Supply distribution system in Alappuzha Municipality - Construction of 3 OHSRs - Design - 12 LL OHSR at Kattoor - Mararikulam South panchayath
- 15 KIIFB - Augmentation and Modernisation of Water Supply distribution system in Alappuzha Municipality - Construction of 3 OHSRs - Design - 9 LL OHSR at Vyasapuram - Aryad pt.
- 16 AMRUT - WSS to Thrissur Corporation - Design of 5 LL OHSR - Sump cum Pump house at Kuttanelloor -Design and drawing verification
- 17 NRDWP - Comprehensive Water Supply Scheme to Agali and adj. Panchayaths in Palakkad District - Phase I - Construction of 12 mld WTP at Kavundikkal - Design verification charges.

- 18 AMRUT - Project 2015-16 - Design, Construction and Commissioning of 5 MLD Sewage Treatment Plant (STP) with MBBR Technology and Recycling system for the treated water including operation & maintenance for 10 years in Medical College hospital, Thiruvananthapuram - Design charges
- 19 NABARD - CWSS to Pallichal, Balaramapuram and Vilavoorkal panchayaths - Alternative proposal for pumping water to the OHSR at Vanigar Street and to the GLSR at Poovada - Design charges.
- 20 Construction of Steel Bridge for pipe conveyance at River Crossing in Mulavana - Kannammoola road – Second Bridge - 42 m Steel Bridge at Thekkummoodu, Kannammoola road.
- 21 Water Supply Scheme to Peringamala Grama Panchayath in Thiruvananthapuram District – Design report - Design charges of RWPM, CWPM and Distribution Network.
- 22 KIIFB -2017-18- Comprehensive drinking water Scheme to Ambalappara panchayath in Ottappalam Taluk in Palakkad District – Phase II – Design, Construction, Commissioning and maintenance of 6.50 MLD WTP, 12 LL OHSR, Supplying and laying 250mm DI K9 CWPM, Road restoration and Supplying and erection of VT pump set – Design verification charges of –12. LL OHSR at Ambalappara.
- 23 NABARD – RIDF – XXIII – Comprehensive Water Supply Scheme to Mannur, Keralassery & Mankara Panchayaths in Palakkad District - Phase I – Structural design and drawing of 8 LL capacity OHSR at Keralassery – Design verification charges.
- 24 AMRUT - WSS to Guruvayoor Municipality Package I & II - Design of 15 MLD WTP at Kottapadi in Guruvayur - Design charges
- 25 CWSS to Pallichal Grama panchayath and Madavoor Grama panchayath (Part) in Thiruvananthapuram District - Design report - Design charges of Distribution Network, CWPM and RWPM.
- 26 CWSS to Pulimath, Nagaroor and Karavaram Panchayaths – Construction of OHSRs at Nellikunnu and Paramuku – Structural Design- Design charges of 14.00 LL capacity OHSR at Nellikunnu Design charges of 15.30 LL capacity OHSR at Paramukku
- 27 NABARD – Assisted Konni Medical College – Design of Transformer room at Intake well site – Mattakku kadavu – Design charges -
- 28 RURBAN – WSS to Mangati Dam Zone 3 at Thalassery Taluk – 1150m length pumping main – Design Verification charges.
- 29 WSS to Eruvatty Village in Pinarayi Panchayath – Design of 6840 m length various sizes distribution network - Design Verification charges.

- 30 WSS to Eruvatty Panchayath – Design of 42435 m length various sizes of distribution network in zone II - Design Verification charges.
- 31 WSS to Karimba and Kongad – Design of 26155 m length 450/350/200mm DI Pumping main - Design charges.
- 32 WSS to Kozhinjapara and adjoining panchayaths– Design of 17100 m length 300 mm DI K9 CW Pumping main - Design charges.
- 33 WSS to Vandazhi and adjoining panchayaths – Design of 7475 m length 150mm DI K9 Pumping main - Design charges.
- 34 WSS to Pallasana and adjoining panchayaths – Design of 7490 m length 200mm DI K9 Pumping main - Design charges.
- 35 WSS to Kanjikode to IIT Permanent Campus at Kanjikode – Design of 7260 m length 300mm DI K9 Pumping main - Design verification charges.
- 36 WSS to Mannarkkad and Thenkara –4420m length 350mm / 300mm DI K9 Pumping main design - Design charges.
- 37 WSS to Mankara Grama Panchayath – Design of 7310m length 200mm DI K9 Pumping main - Design Verification charges.
- 38 WSS to Elappully, Nallepully, Perumatty and Pattanchery – Design of 25910 m length Distribution Network of various size pipeline from 90mm PVC to 300mm DI K9 - Design charges.
- 39 WSS to Koppam - Vilayur – Design of 250396 m length various size of pipeline from 90mm PVC cl-6 to 450mm DI K9 Distribution Network -Design charges.
- 40 STATE PLAN – WSS to Kunnummal Panchayath in Kozhikode district – Design of 9 LL OHSR at Peruvani - Design verification charges.
- 41 CWSS to Mannoorkara, Veeranakavu and Perumkulam villages – Phase I – Package II, III & IV – Design, Construction and commissioning of 11.50 MLD WTP at Thozhuthinkara chira, Construction of 1.40 LL OHSR at Aniyilakunnu and construction of 3.50 LL OHSR at Panniyode.
- 42 KIIFB – WSS to Cheruthazham, Kuzhimangalam panchayath & Ezhimala Naval Academy – Phase I – Vannathipuzha – 450mm OD HDPE Pipe – Concrete sleeve for river crossing and Kuppam River – 500mm OD HDPE Pipe - Concrete sleeve for river crossing – Design verification charges.

- 43 KIIFB - Augmentation of WSS to Kollam Corporation phase II - Package III – Design of 54 LL OHSR at Manichithodu -Design verification charges.
- 44 CARWSS to Kulathupuzha and adjoining villages – Phase II – Construction of 4 LL OHSR at Vechikonam near Kalyani Junction, 200 mm pumping main and pump set – Package II – Design of 4 LL OHSR- Design verification charges.
- 45 KIIFB – Water Supply Scheme to Zoological Park – Design of 6 m dia Intake Well cum Pump house – 6m dia Intake Well, Pump house of plinth area 64m<sup>2</sup> - Design verification charges.
- 46 WSS to Thanur and adjoining Panchayaths – Design for transmission main - Design charges.
- 47 WSS to Thrikkalangode and Porur – Design for RWPM
- 48 WSS to Thanur and adjoining Panchayaths – Design for Distribution Network.
- 49 NABARD – RIDF – XXIII – CWSS to Mannur, Keralassery and Mankara Panchayath – Phase I – Design of 10 MLD WTP at Keralassery - Design verification charges
- 50 AMRUT 2017-18 – Construction of 40 LL capacity OHSR at Kaloor - Design verification charges.
- 51 WSS to MCPT – Design for Raw Water Pumping main and Transmission main – Design charges.
- 52 Source Sustainability – Source Improvement of Sasthamcotta lake – Design of recycling system for 37.5 MLD and 22 MLD water treatment plants at Sasthamcotta - Design charges.
- 53 AMRUT – PHASE III – Package I – Strengthening of Existing Infra Structure facilities and quality improvement of CWSS in Kozhikode Corporation – 105 m pipeline bridge – Thengilakadvu at Mavoor -Design verification charges
- 54 Extension from Kunnummal and adjoining Panchayaths– OHSR near Identity College for Chekiad Panchayath. Design for Distribution Network -Design charges.
- 55 WSS to Koyilandy Municipality – Zone – I – Design for Distribution Network -Design charges.
- 56 WSS to Koyilandy Municipality – Zone II – Design for Distribution Network - Design charges.
- 57 WSS to Koyilandy Municipality – Zone III – Design for Distribution Network -Design charges.
- 58 WSS to BSF Chekiad from the Existing Service Reservoir at Niruvammal – Design for Gravity main - Design charges.
- 59 WSS to Malabar Medical College, Atholi from JICA – Design for extension of pipeline - Design charges.



- 60 WSS to Payyoli Coastal area – Design for Gravity main – Design charges.
- 61 WSS to Koyilandy and adjoining panchayaths – Design for Distribution Network for Thuravur - Design charges.
- 62 WSS to Payyoli Coastal area – Design for Distribution Network from OHSR at THS Payyoli - Design charges.
- 63 WSS to Mavoor and adjoining Panchayaths – Design for Distribution Network from GLSR Illingal for Karassery Panchayath - Design charges.
- 64 WSS to Mavoor and adjoining Panchayaths – Design for Distribution Network from GLSR Thannikodumala for Mukkam (M) (Part) Zone IV - Design charges.
- 65 AMRUT 2017-18 – Construction of 5 LL capacity CWR and Pump house at Kaloor - Design verification charges.
- 66 NABARD-WSS to Kottiyoor, Kelakam and Kanichar Phase I in Irrity Thaluk of Kannur District – design construction of 11 MLD Water Treatment Plant at Kanichar.
- 67 KIIFB – 2017-18 – Jalagramam – CWSS to Kozhinjampara, Vadakarapathy and Eruthempathy panchayaths in Palakkad district – Phase –I – Package –I – Design, Construction, Commissioning and maintenance of 8 MLD WTP with 6 LL CW sump. 9.8 LL OHSR, supplying , laying 300mm DI CWPM and 150mm DI CWPM, interlinking works – Design verification charges of 8 MLD WTP at Moonkilmada - Eruthumpathy.
- 68 CWSS to Pampa and Sabarimala – Improvement of Storage facility in Pampa – Construction of 10 LL capacity New OHSR – Structural design charges -
- 69 KIIFB – 2017-18 – CWSS to Pallasana Elavanchery, Alathur, Erimayur, Pudukkode and Kavassery panchayath in Palakkad District. – Design of 26 MLD WTP at Pothundy - Design verification charges.
- 70 KIIFB - 2017-18 - CWSS to Elappully, Nalleppully, Perumatty and Pattanchery Panchayaths in Palakkad District – Design of 5 LL OHSR at Kochikkad in Pattanchery Panchayath.
- 71 KIIFB -2017-18- CWSS to Ambalappara Panchayath in Ottapalam Taluk – Design of 6.5 MLD WTP at Ottappalam - Design verification.
- 72 NABARD - RWSS to Mallappally, Anicadu, Kottangal Panchayath –Design of transformer room and roadway for 9m dia intake well cum pump house at Kozhimannilkadavu -structural drawings - Design verification.

**PPD REGIONAL OFFICE THIRUVANANTHAPURAM**

<b>(A) SURVEY WORK</b>			
Sl No	Description	Details of work	Length
	<b>District: Thiruvananthapuram</b>		
1	CWSS to Vamanapuram, Nellanadu and Manickal GPs	Distribution Network	351.595 km
2	CWSS to Pulimath, Nagaroor and Karavaram GPs	Distribution Network	473.02Km
3	CWSS to Aryanadu and Uzhamalakkal GPs	Distribution Network	282.985 km
	<b>District: Kollam</b>		
1	WSS to Kottarakkara & Neduvathoor - Phase II Distribution	Distribution Network	Kottarakkara - 168.26 km, Neduvathoor - 172.77 km
	<b>District : Pathanamthitta</b>		
1	WSS to Vadasserikkara, Malayalappuzha and Mylapra Panchayat	Survey work for the design of production components completed	22.5 Km
2	WSS to Aranmula	Design of production components for augmentation of scheme has been carried out (land issues to be taken up with Project Division Adoor)	
3	WSS to Cherukole Naranganam	Survey for design of production components for augmentation of scheme completed (land issues to be taken up with Project Division Adoor)	8.80
4	WSS to Ranni-Angadi & kottanadu	Survey and Design work for distribution net work completed .	
5	WSS to Pallickal Panchayat	Distribution net work survey work completed .	2.75 km
6	WSS to Konni Medical collage Distribution in wards 1,2,14&15 in Aruvappulam pt.	Distribution net work survey work completed .	
7	WSS to Kulanada & Mezhuveli	Production components survey work for augmentation of scheme COMPLETED (land issues to be taken up with Project Division Adoor)	
8	WSS to Enadimangalam, Ezhamkulam , Erathu and Kalanjoor (p)	Design of production components for augmentation of scheme completed (modelling and designing in progress (land issues to be taken up with Project Division Adoor)	
9	Wss to Kozhenchery	Survey and Design work for distribution net work completed .	
10	WSS to chittar	Production components Survey work in progress	4km
11	WSS to Mallapally, Anicad & Kottangal	Survey and Design work for distribution net work completed .	



	<b>District : Kottayam</b>		
1	RWSS to Ramapuram and adjoining panchayaths	Distribution network	48.857 Km
2	RWSS to Vijayapuram	Pumping main	6.3 Km
3	RWSS to Manimala	Pumping main	5.14 Km
4	RWSS to Ettumanoor & adjoining panchayaths	Pumping main	7.4 Km
5	RWSS to Ramapuram and adjoining panchayaths	Pumping main	25.1 Km
6	RWSS to Puthuppally	Pumping main	10.815 Km
<b>(2) DER SUBMITTED</b>			
1	CWSS to Aryanadu and Uzhamalakkal GPs	Production component work- Phase I	
2	CWSS to Peringamala Panchayath	Distribution Network- Phase II	
3	KIFFB -Aug & Rehabilitation of RWSS to Mudakkal Panchayath	Production Component-Phase I	
4	Mini water supply scheme to Kodikunnu in Njandoorkkonam Division	Clear Water Pumping Main	
5	WSS to Mancodu at Pathanapuram Pt.	Pumping main and Distribution	
6	WSS to Kottamkara Panchayath- Transmission and Distribution system	Pumping main and Distribution	
7	Water Supply Scheme to Kalluvathukkal Parippally and Velinalloor villages - Phase-II - Transmission and Distribution	Pumping main and Distribution	
8	WSS to Airanelloor village	Distribution Network	

### PPD Regional Office, Kochi

<b>DETAILS OF WORKS TAKEN UP AND DONE IN 2019-2020</b>					
<b>Sl. No.</b>	<b>Name of Project</b>	<b>Head of work</b>	<b>District</b>	<b>Type of work</b>	<b>Status</b>
<b>THRISSUR</b>					
<b>2019-2020</b>					
1	100 MLD WTP for Thrissur Corporation and adjoining Panchayaths-alternate design due to site change	State	Thrissur	Hydraulic design	Design has been forwarded to Project Division, Nattika
2	WSS to Thrissur Corporation and adjoining panchayaths - Phase-II- Transmission and Distribution	KIIFB	Thrissur	Hydraulic design	Plant re-design, pumping main re-design and transmission design are completed and forwarded to Project division Nattika for DER preparation. Survey map of distribution is to be obtained for hydraulic analysis.

3	WSS to Chelakkara, Thiruvilwamala, Kondazhi & Pazhayannur	State	Thrissur	Survey and hydraulic design	Survey was completed. Design is under preparation.
4	WSS to Kadangode, Desamangalam, Varavur & Velur	State	Thrissur		Survey was completed. Design is under preparation.
5	WSS to Nattika Firka - phase-II	KIIFB	Thrissur	Hydraulic design of network of 10 GPs	Design and drawing completed and forwarded to Project Dn Nattika for DER preparation
6	Chazhur Anthikkadu Thannyam Drinking Water project- Phase-II- Distribution System	KIIFB	Thrissur	Hydraulic design of 3 GPs	Design and drawings are completed and forwarded to Project Dn Nattika for DER preparation
	Drinking Water Projects for Kodassery-Pariyaram-Athirappally Panchayaths	KIIFB	Thrissur	Hydraulic design of 3 GPs	Design and drawing are completed and forwarded to Project Dn Nattika for DER preparation
<b>ERNAKULAM</b>					
<b>2019-2020</b>					
7	WSS to Karumaloor and Kunnukara GP-Distribution network	RKI	Ernakulam	Hydraulic design of distribution network	Design and drawings are over forwarded to Project division for DER preparation
8	WSS to Puthenvelikkara	RKI	Ernakulam	Survey for 6.5 km of pumping main and hydraulic design	Survey and design was completed and forwarded to PH Division, Aluva.
9	WSS to Tripunithura M, Chottanikkara and Udayamperoor GPs	RKI	Ernakulam	Hydraulic design and structural design of OHSR	Design is completed and forwarded to JNNURM Project Division
10	JnNURM-WSS to Kumbalangi & Chellanam GP	RKI	Ernakulam	Hydraulic design of distribution network	Design completed and forwarded to JNNURM project division
11	JnNURM-WSS to Kumbalam Panchayath	RKI	Ernakulam	Hydraulic design of distribution network	Design completed and forwarded to Project Division for DER preparation.
12	Structural design of OHSR at Edakochi	AMRUT	Ernakulam	Structural design	Design is completed and forwarded to JNNURM Project Division
13	Extension of Angamaly Drinking Water Supply project - Phase-II- Distribution	KIIFB			Survey map of Angamaly Municipality and 3 GPs (Manjapra, Ayyampuzha and Malayattoor) are received and design is started. Survey of Thuravur GP to be completed for 50 km (70 km is over by PPD)
<b>IDUKKI</b>					
<b>2019-2020</b>					

14	WSS to Elappara (Vagamon), Upputhara and Ayyappankovil-source Idukki dam	JJM	Idukki	Survey and hydraulic design	Survey of production components completed. Drawings are under preparation. DER can be prepared after hydraulic analysis and design.
15	WSS to Pampadumpara, Nedumkandam and Erattayar (Part)-source Idukki dam		Idukki	Survey and hydraulic design	Survey is partially completed. Drawings are under preparation. PER can be prepared after completion of survey and hydraulic analysis and design.
16	WSS to Karunapuram, Vandanmedu and Chakkupallam (Part)-Idukki dam		Idukki	Survey and hydraulic design	Survey is partially done and to be completed. Drawings are under preparation. PER can be prepared after hydraulic analysis and design.
17	WSS to Kattappana (M) and Kanchiyar-source Idukki dam		Idukki	Survey and hydraulic design	Kanchiyar- Preliminary investigation have been performed. Survey of Kattappana Municipality to be conducted. Drawings are under preparation. PER can be prepared after hydraulic analysis and design.
<b>ALAPPUZHA</b>					
<b>2019-2020</b>					
18	WSS to Mavelikkara Municipality and adjoining Chettikulangara, Chunakkara and Thazhakkara GPs	State	Alappuzha	Survey and Design of main components and DER preparation	Hydraulic analysis and design of the transmission lines and distribution network are in the final stage (90% over) and will be completed soon.
19	Survey work of Transmission main to Cherianad-Thuruthummel OHSR	State	Alappuzha	Survey	Survey work was completed drawings were forwarded to Project Division, Alappuzha
20	CWSS to Harippad and adjoining panchayaths-phase-I	State	Alappuzha	Survey and hydraulic design of production components	Survey and design is over and drawings are under preparation. It will be forwarded to project division for DER preparation
21	CWSS to Harippad and adjoining panchayaths-phase-II	JJM	Alappuzha	Hydraulic design of distribution network	Survey and design is over and drawings are under preparation. It will be forwarded to project division for DER preparation
22	CARWSS to Kurattissery, mannar, Chennithala & Thripperumthura Villages	RKI	Alappuzha	Hydraulic design of distribution network	Design has been completed and drawings are under preparation. It can be submitted shortly.

## PPD Regional Office, Kozhikode

<u>Sl No</u>	<u>District</u>	<u>Name of Scheme</u>	<u>Remarks</u>
<b><u>Pumping Main and Transmission Main</u></b>			
1	Kozhikode	WSS to Payyoli and Coastal area	Gravity amian
2	Kozhikode	WSS to Mavoor and adjoining	Gravity amian
3	Kozhikode	WSS to Nadapuram Arts College	Gravity main
4	Kozhikode	WSS to Vadakara Tsunami colony Pumping Main from Thuruthipuram OHSR to OHSR Tsunami colony	Pumping Main
5	Kozhikode	Azhiyur Panchayath Zone I	Pumping Main
6	Kozhikode	WSS to NIT Calicut	Pumping Main
7	Kozhikode	MVR Cancer Center	Pumping Main
8	Palakkad	WSS to Vandazhi and adjoining Panchayaths	Design of CWPM and OHSRs for high level zone
9	Palakkad	WSS to Malapuzha and adjoining Panchayaths	Design of CWPM /CWGM due to Change tank site
10	Palakkad	WSS to Pallassana and adjoining panchayaths	Design of CW pumping mains to Kavassery and Pudukode
11	Palakkad	WSS to Thachanattukara Kottopadam , Alanallur	Design of CW pumping mains to Thachanattukara , Kottopadam, Alanallur
12	Palakkad	Augmentation of UWSS to Shornur Municipality and Vaniyamkulam Panchayath	Design of CW Pumping main to /CW Gravity Main for Vaniyam Kulam Panchayath
13	Palakkad	WSS to Mannarkkad and Thenkara	Pumping Main
14	Palakkad	WSS to Cherpulasseri Municipality and Thrikkaderi Ananganady and Chalvara Panchayaths	Design pf production Components
15	Kannur	WSS to Madikkai Panchayath	Pumping main
16	Malappuram	WSS to Thrippangode and adjoining Panchayaths	RWPM,Transmission Main
<b><u>Distribution System</u></b>			
17	Kozhikode	Azhiyur Panchayath ZoneI &II	Distribution design
18	Kozhikode	WSS to Payyoli Coastal area	Distribution design

19	Kozhikode	WSS to Koyilandi and adjoining Panchayath Naduvannur	Distribution design
20	Palakkad	WSS to Koppam and Vilayur	Distribution design
21	Palakkad	Augmentation of UWSS to Shornur Municipality and Vaniyamkulam Panchayath	Distribution design
23	Palakkad	WSS to Ambalapara	Distribution design
24	Palakkad	WSS to Thachunattukara ,Kottopadam ,Alanallur	Distribution design
25	Palakkad	WSS to Pallassana Elevencheri ,Alathur,Erimayur,Pudukode,and Kavassery,Panchayaths	Distribution design
26	Palakkad	WSS to Karimba and Kongad ,Mundur	Distribution design
27	Palakkad	WSS to Vandazhi and Grama Panchayath	Distribution design
28	Palakkad	WSS to Malampuzha and adjoining Panchayath	Distribution design
29	Palakkad	WSS to Chittur Thathamagalam Vadavannur	Distribution design
30	Palakkad	WSS to Ongallur Vallapuzha	Distribution design
31	Palakkad	WSS to Mannarkkad and Thengara	Distribution Design
32	Kannur	Wss to Kunjimagalam,Cheruthazham,Ezhimala Naval Academi-Phase II 9 Zone	Distribution Network
33	Kannur	WSS to Keezhallur	Design Distribution
34	Kannur	WSS to Mattannur and Iritty	Distribution Design
35	Kasaragode	WSS to Madikai panchayath	Distribution design
36	Malappuram	WSS to Thriprangod and adjoining Panchayaths	Distribution design
<b><u>Vetting</u></b>			
37	Malappuram	Augmentation of MWSS to Malppuaram (M) and improvement to Melmuri Village	vetting
38	Malappuram	CWSS to Morayur ,Pokkottur and Pulpetta	Vetting RWPM
<b><u>Other Works</u></b>			
39	Kozhikode	Total Station Survey to Vishnumagalam Weir	Earth work calculation
40	Kozhikode		RCB weir reconstruction design

#### **Details of PER and DER Prepared during the year 2019-20**

1	Kozhikode	WSS to Vadakara Region	PER
2	Kozhikode	WSS to Eramala and adjoining Panchayaths	PER
3	Malappuram	WSS to Thirurangadi, Parappanagadi(M)	PER
4	Malappuram	WSS to Kottakkal ,Parappur,Edarikkode and Kodur panchayath	PER

## **CHAPTER VIII COMPUTERISATION AND IT-INITIATIVES**

During 2019–2020 Kerala Water Authority brought balance 4,00,000 more connections to Centralized Spot Billing System – e-Abacus. Achieving 99% of Consumer Population. Thus eAbacus rollout has been completed statewide except one subdivision at Thaycattussery in Alapuzha District.

An expression of Interest has been called to invite banks and payment aggregators for including more payment gateways and other channels like Google pay, Paytm etc for easy and online bill payment for customers. 12 Aggregators including 10 banks are shortlisted and among the banks one bank is selected as operating unit (OU) for Bharat Bill Payment System. The integration work has been started.

KWA decided to introduce Bharat Bill Pay system also and offline integration started.

KWA decided to introduce POS (Point of Sales) machines in all revenue collection centres for enabling card transaction for bill payments.

KWA revamped its Payment Portal to framework and quick pay system introduced which envisages consumer to pay water charge online without registration.

A new online Complaint Redressal Platform –AQUALOOM was introduced to address the various types of public complaints like Leaks, payment issues, Bill related issues etc.

New Centralised Pension Application Software for pensioners has been introduced by customising the state govt. Pension Software by NIC. Trial run of the same is in progress.

Contractor Bill Seniority Processing software, Chemical Procurement software, Material Management system also developed and deployed during this period.

EPMS – Employee Profile Management System, an online platform for processing of general transfer of employees was introduced complying to state government guidelines.

### **Enterprise Resource Planning (ERP), E-governance, GIS and information Management**

The main activities under this head are listed below

eAbacus-the Enterprise Billing Application having Online Transaction Processing System used for Consumer Management of Kerala Water Authority have been rolled out to almost all Subdivisions and currently holding a consumer population of 26 lakh Consumers. 29 Divisions, 74 Subdivisions and 135 Sections have been covered so far. 98% Consumers of KWA is brought under the system. It is a remarkable mile stone. As a part of revamping the existing Billing Application, a URS has been prepared after collecting feedbacks, requirements from all levels of staffs from field staff up to Chief Engineers.

As part of ring fenced analysis of schemes, to assess the functioning of schemes, the scheme mapping facility to existing connections has been brought to the system. 98% of

connections were mapped to list of schemes. This enables the analysis of production vs distribution, quantum of losses in schemes, calculation of Non Revenue Loss, Break Even Analysis, Costing etc based on water supply schemes. Implementation of ERP in KWA involves system study, preparation and approval of Software Requirement Specification documents, procurement of licenses, hardware, system integration etc by project Monitoring Consultant and consultant for KWA. The main achievements are

- Procured server for Data center 2 amounting to Rs.23 lakhs.
- Procured UTM Firewall worth Rs.5lakhs for HO, KWA
- Introduction of Call center for 24 hrs for complaint redressal.
- Contract Staff 3 No. employed for development of in house software like Vehicle Monitoring Software, Purchase Software, Bill Seniority Software.
- For availing support for DDFS, MARCH and O&M software.
- AMC for LIMS software
- Implementing Pension Software in KWA through NIC.
- Developed of in house software for various wings in KWA like Materials Management Software, Contractor Information Management Software.
- For Annual Maintenance Contract for up keeping of computers, printers, servers, network components, Photocopier etc.
- For purchase of Network components, Servers, Antivirus software,
- For leased line and internet connectivity management in existing offices and rollout in pending offices.
- Completion of URS for revamping and agreement execution with the concerned agency for revamping.

The budget allowed for the financial year 2019-20 is Rs.500 lakhs and the total expenditure for 2019-20 is Rs.100.6 lakh.

## CHAPTER –IX

### FINANCIAL PERFORMANCE

9.1. Kerala Water Authority is a Service Sector organization and autonomous body of Government of Kerala, entrusted with supply of potable water in Kerala and collection and treatment of sewage. The main source of income of Kerala Water Authority is collection of water charges. From the formation of Kerala Water Authority, it has never earned any surplus Income and is continuously running at deficit. Due to the deficit, Water Authority is unable to pay the power charges, regular payment of operation and maintenance to the contractors, pay revision arrear of employees and commutation to the retired employees etc...

Kerala Water Authority is undertaking water supply schemes based on the budgetary allocation of Government of Kerala and Government of India. The major heads of Capital Receipts of Kerala water Authority comprises of the following:

**a. Grant in Aid from Government of Kerala under the following heads**

- i. State plan schemes
- ii. NABARD schemes
- iii. JICA (Now under State)
- iv. NRDWP (State Share)

**b. Grant in Aid from Government of India (for NRDWP schemes)**

In addition to the above Water Supply Schemes are also undertaken under Deposit Works, KIIFB, AMRUT etc.



INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 <sup>st</sup> MARCH, 2020 ( PROVISIONAL )				
SL No	Head	Schedule Reference	CURRENT YEAR (Amount in Rs)	PREVIOUS YEAR (Amount in Rs) Pre audited
	<b>INCOME</b>			
1	Operating Income			
	a. Consumers	L	8,42,20,44,865	6,53,29,22,793
	b. Others	M	3,24,19,244	9,18,01,376
			8,45,44,64,109	6,62,47,24,169
2	Grants & Subventions - Government of Kerala		2,73,53,11,300	3,59,02,31,800
3	Interest Income	N	31,71,35,464	25,48,90,312
4	Other Non-Operative Income	O	2,43,12,01,856	1,82,05,23,545
	<b>otal Income</b>		<b>13,93,81,12,729</b>	<b>12,29,03,69,826</b>
	<b>EXPENDITURE</b>			
1	1 Operating & Maintenance Expenses	P	4,57,31,02,787	4,08,48,94,725
	Less: Current year Power charges absorbed by GoK		-	1,67,13,00,000
	Net Operating & Maintenance Expenses		4,57,31,02,787	2,41,35,94,725
2	Payment & Provision to Employees	Q	9,13,26,74,115	8,95,04,76,923
3	Office expenses	R	21,31,73,659	20,13,68,066
4	Travelling & Conveyance Expenses		6,00,86,912	5,32,91,536
5	Administrative Expenses	S	3,08,37,272	2,02,49,162
6	Debtors written off	T	-	19,79,80,770
7	Assets and losses written off	U	-	-
8	Provision for Doubtful Debts	V	-	-
9	Interest on			
	a. Secured Loans		4,43,62,091	5,27,70,877
	b. Government of Kerala Loans		2,52,65,84,000	2,52,72,96,000
	c. GPF		30,13,69,000	31,07,14,000
			2,87,23,15,091	2,89,07,80,877
10	Depreciation	E	1,46,26,08,826	1,37,55,16,747
	<b>otal Expenditure</b>		<b>18,34,47,98,662</b>	<b>16,10,32,58,806</b>
11	Transferred to Capital Work-In-Progress	W	37,06,40,679	37,97,40,700
			17,97,41,57,983	15,72,35,18,106
	<b>Excess of Income over Expenditure</b>		<b>-4,03,60,45,254</b>	<b>-3,43,31,48,280</b>
12	Prior Period Adjustments	X	5,03,41,862	9,69,22,96,637
	<b>Excess of Income over Expenditure after prior period adjustments</b>		<b>-3,98,57,03,392</b>	<b>6,25,91,48,357</b>

10.1. Revenue Monitoring Cell is constituted to monitor all the revenue related activities in KWA. The main objectives are:

- a. Accessing the quantum of water consumed, billed and the revenue generated there upon.
- b. Fixing revenue target and new connection target of all Revenue Divisions and monitoring its regular progress. Monitoring of all complaints and petitions related to revenue and settlement of the same.
- c. Monitoring street taps of local bodies and collection of revenue.
- d. Liaison with all the Revenue Divisions and issuing guidelines.
- e. Preparing monthly consolidated collection statement, connection statement and demand collection balance statement.

**10.2. Summary of its activities during the years 2019-20.**

- (a) In order to increase the revenue collection and for clearing the arrears, steps are taken to disconnect the water connection of all major defaulters and initiated revenue recovery proceedings through Revenue Department.
- (b) All sub divisions of Kerala Water Authority are registered under new Revenue Recovery Portal of Government of Kerala and initiated Revenue Recovery proceedings.
- (c) A District Level Revenue Adalath conducted in March 2020. But due to the outbreak of Covid-19 pandemic disease Revenue Adalath completed in 2 District (Malappuram & Palakkadu) and partially in Kollam. The adalath was conducted for solving long pending complaints and grievances of the consumers.

- (d) Total target for the year 761 crore, collected Rs. 483.58 crore and achieved 63.55% against the target.

**10.3. A consolidated statement showing the Demand, Collection, Balance of Water Charges from Domestic, Non-Domestic, Industrial consumers etc for the year 2019-20.**

*(Amount in Crores)*

Category	Demand including Interest	Collection	Balance
<b>Domestic</b>	269.08	233.47	35.61
<b>NonDomestic</b>	401.39	233.87	167.52
<b>Industrial</b>	17.94	16.24	1.70
<b>Total</b>	<b>688.41</b>	<b>483.58</b>	<b>204.83</b>

**10.4. Arrears of revenue collected during the years 2019-20 Rs.150,84,60,949/-**

**10.5. Arrears of water charges as on 31-03-2020 (category wise)**

Category	Arrears in Crores
<b>Domestic</b>	262.69
<b>Non Domestic</b>	970.54
<b>Industrial</b>	9.96
<b>TOTAL</b>	<b>1243.19</b>

**10.6. Arrears of Revenue at the beginning of the year 2019-20 - Rs. 1166.51 Crores**

**10.7. Arrears of Revenue at the end of the year 2019-20 - Rs.1243.19 Crores**

**10.8. Total revenue collected from Local Bodies with split up details of revenue collected from Panchayat, Municipality, Corporation, etc during the years as on 31-03-2020**

(Amount in Crore)

Local Bodies	Local Bodies Collection
Panchayath	102.97
Municipality	60.15
Corporat	76.29
<b>TOTAL</b>	<b>239.41</b>

**10.9. Total number of street taps with split up details of street taps under Panchayat, Municipality and Corporation area as on 31/03/2020.**

Local Bodies	Total No. of Street Taps
Panchayath	150757 Nos
Municipality	29889 Nos
Corporation	18972 Nos
<b>TOTAL</b>	<b>199618 Nos</b>

**10.10. Number of street taps added during the year 2019-20 specifying Panchayat, Municipality and Corporation wise details.**

Local Bodies	No. of Street Taps added
Panchayath	-3236 Nos
Municipality	-1320 Nos
Corporation	-267 Nos
<b>TOTAL</b>	<b>-4823 Nos</b>

**10.11. Details of revenue written off and waived off during the years**

**2019-20- Rs. 114,74,24,015/-**

**10.12. Details of Subsidy allowed during the years 2019-20 - Rs. 5,35,12,523/-**

**10.13. Total number of water connections provided during the years 2019-20 showing split up details of Domestic, Non Domestic, Industrial etc specifying the area (Rural and Urban) and population benefited.**

<b>Category</b>	<b>Connection provided 2019-20</b>	<b>Rural</b>	<b>Urban</b>
Domestic	179099	123578	55521
Non Domestic	13798	6623	7175
Industrial	121	70	51
<b>Total</b>	<b>193018</b>	<b>130271</b>	<b>62747</b>

**10.14. Total number of water connections classified as Domestic, Non Domestic, Industrial etc specifying the area (Rural and Urban) as on 31-03-2020 and Population benefited.**

<b>Category</b>	<b>Total No. of Water Connection as on 31.03.2020</b>	<b>Rural</b>	<b>Urban</b>
Domestic	2442462	1465477	976985
Non Domestic	185478	72336	113142
Industrial	2151	1248	903
<b>Total</b>	<b>2630091</b>	<b>1539061</b>	<b>1091030</b>

**10.15. Total number of sewerage connections as on 31/03/2020 - 54265 Nos**

**10.16 .Sewerage connections added during 2019-20 - 292 Nos**

**10.17. Details of Adalaths conducted during the years 2019-20**

In March 2020 decided to conduct a District Level Revenue Adalath for consumers. But the adalath conducted in three district i.e. Malappuram, Palakkadu and Kollam (Partially) due to the outbreak of Covid-19 pandemic disease. The proposed schedule of adalath was postponed. From these 3 District total 2964 petition received, 2452 consumers participated with the revenue adalath, 2038 cases settled and paid Rs.16,22,231/-in same day and total settled the amount of Rs.8,86,60,325/- also and Non Domestic consumers agreed OTS.Long pending /huge arrears consumers to allowed installment also. The responses from these consumers where overwhelming as the function was noted with the active participation of consumers.

**10.18. Important campaigns conducted for Revenue collection during the years 2019-20**

In order to increase the revenue collection and for clearing the arrears, steps are taken to disconnect the water connection of all major defaulters and revenue recovery proceedings initiated through Revenue Department. All sub divisions of Kerala Water Authority are registered under new Revenue Recovery Portal of Government of Kerala and initiated Revenue Recovery proceedings. Propaganda through all mass medias such as news papers, Radio, Visual medias, notices etc..

**10.19. Seminars, conferences, workshops etc conducted related to revenue collection during the years 2019-20.**

Conducted a Revenue review meeting on 27/04/2019 at Centre for water Education Thiruvananthapuram chaired by the Managing Director. Besides conducted a workshop on “Revamping of e-Abacus Software in KWA” at Centre for water Education Thiruvananthapuram on 02/07/2019 with the presents of the Chief Engineer (HRD & GL). Revenue Task Force meeting conducted in Circle and Division level in every months and necessary directions and guide lines given to Sub Division/SectionLevelOfficers.

## Chapter-XI Establishment

Head Office	1
Regional Office	3
PPD & WASCON	1
Circle Offices	17
Division Offices	49
Sub Division Offices	136
Section Offices	293

### DETAILS OF REGIONAL OFFICES , CIRCLE OFFICES AND DIVISION OFFICES 2019-20

SI No.	NAME OF OFFICES	OFFICE TYPE		
1	CE, CENTRALREGION, KOCHI	REGIONAL OFFICES		
2	CE, NORTHERN REGION, KOZHIKODE			
3	CE, SOUTHERN REGION, TRIVANDRUM			
4	CE, PPD & WASCON, TRIVANDRUM			
SI No.	NAME OF OFFICES	OFFICE TYPE	DISTRICT	PARENT OFFICE
1	PPD REGIONAL OFFICE, TRIVANDRUM	PPD REGIONAL OFFICES	TRIVANDRUM	CE, WASCON, TRIVANDRUM
2	PPD REGIONAL OFFICE, KOCHI		ERNAKULAM	CE, WASCON, TRIVANDRUM
3	PPD REGIONAL OFFICE, KOZHIKODE		KOZHIKODE	CE, WASCON, TRIVANDRUM
SI No.	NAME OF OFFICES	OFFICE TYPE	DISTRICT	PARENT OFFICE
1	PMU ADB Project, TRIVANDRUM	CIRCLE	TRIVANDRUM	
2	JNNURM PROJ CIRCLE KOCHI	CIRCLE OFFICE	ERNAKULAM	CE, CENTRALREGION, KOCHI
3	SRI NETTOOR	CIRCLE OFFICE	ERNAKULAM	CE, CENTRALREGION, KOCHI
4	P H CIRCLE KOCHI	CIRCLE OFFICE	ERNAKULAM	CE, CENTRALREGION, KOCHI
5	P H CIRCLE MUVATUPUZHA	CIRCLE OFFICE	ERNAKULAM	CE, CENTRALREGION, KOCHI

6	P H CIRCLE THRISSUR	CIRCLE OFFICE	THRISSUR	CE, CENTRALREGION, KOCHI
7	PH CIRCLE ALAPPUZHA	CIRCLE OFFICE	ALAPPUZHA	CE, CENTRALREGION, KOCHI
8	P H CIRCLE KANNUR	CIRCLE OFFICE	KANNUR	CE, NORTHERN REGION, KOZHIKODE
9	P H CIRCLE KOZHIKODE	CIRCLE OFFICE	KOZHIKODE	CE, NORTHERN REGION, KOZHIKODE
10	P H CIRCLE MALAPPURAM	CIRCLE OFFICE	MALAPPURAM	CE, NORTHERN REGION, KOZHIKODE
11	P H CIRCLE PALAKAD	CIRCLE OFFICE	PALAKKAD	CE, NORTHERN REGION, KOZHIKODE
12	JICA PROJECT CIRCLE TRIVANDRUM	CIRCLE OFFICE	TRIVANDRUM	CE, SOUTHERN REGION, TRIVANDRUM
13	JNNURM PROJ CIRCLE TRIVANDRUM	CIRCLE OFFICE	TRIVANDRUM	CE, SOUTHERN REGION, TRIVANDRUM
14	P H CIRCLE KOLLAM	CIRCLE OFFICE	KOLLAM	CE, SOUTHERN REGION, TRIVANDRUM
15	P H CIRCLE KOTTAYAM	CIRCLE OFFICE	KOTTAYAM	CE, SOUTHERN REGION, TRIVANDRUM
16	P H CIRCLE TRIVANDRUM	CIRCLE OFFICE	TRIVANDRUM	CE, SOUTHERN REGION, TRIVANDRUM
17	P H CIRCLE THIRUVALLA	CIRCLE OFFICE	PATHANAMTHITTA	CE, SOUTHERN REGION, TRIVANDRUM
<b>SI No.</b>	<b>NAME OF OFFICES</b>	<b>OFFICE TYPE</b>	<b>DISTRICT</b>	<b>PARENT OFFICE</b>
1	P H DIVISION PATHANAMTHITTA	DIVISION OFFICE	PATHANAMTHITTA	P H CIRCLE THIRUVALLA
2	P H DIVISION THIRUVALLA	DIVISION OFFICE	PATHANAMTHITTA	P H CIRCLE THIRUVALLA
3	PROJECT DIVISION ADOOR	DIVISION OFFICE	PATHANAMTHITTA	P H CIRCLE THIRUVALLA
4	PROJECT DIVISION KANNUR	DIVISION OFFICE	KANNUR	P H CIRCLE KANNUR
5	PROJECT DIVISION MATTANNUR	DIVISION OFFICE	KANNUR	P H CIRCLE KANNUR
6	W S DIVISION KANNUR	DIVISION OFFICE	KANNUR	P H CIRCLE KANNUR
7	WS DIVISION THALIPARAMBU	DIVISION OFFICE	KANNUR	P H CIRCLE KANNUR
8	P H DIVISION KASARGOD	DIVISION OFFICE	KASARAGOD	P H CIRCLE KANNUR
9	P H DIVISION ALUVA	DIVISION OFFICE	ERNAKULAM	P H CIRCLE KOCHI
10	P H DIVISION KOCHI	DIVISION OFFICE	ERNAKULAM	P H CIRCLE KOCHI
11	PROJECT DIVISION PERUMBAVUR	DIVISION OFFICE	ERNAKULAM	P H CIRCLE KOCHI



12	PROJECT DIVISION PIRAVOM	DIVISION OFFICE	ERNAKULAM	P H CIRCLE MUVATTUPUZHA
13	WS DIVISION KOCHI	DIVISION OFFICE	ERNAKULAM	P H CIRCLE KOCHI
14	P H DIVISION KOLLAM	DIVISION OFFICE	KOLLAM	P H CIRCLE KOLLAM
15	P H DIVISION KOTTARAKKARA	DIVISION OFFICE	KOLLAM	P H CIRCLE KOLLAM
16	PROJECT DIVISION KOLLAM	DIVISION OFFICE	KOLLAM	P H CIRCLE KOLLAM
17	P H DIVISION KADUTHURUTHY	DIVISION OFFICE	KOTTAYAM	P H CIRCLE KOTTAYAM
18	P H DIVISION KOTTAYAM	DIVISION OFFICE	KOTTAYAM	P H CIRCLE KOTTAYAM
19	PROJECT DIVISION KOTTAYAM	DIVISION OFFICE	KOTTAYAM	P H CIRCLE KOTTAYAM
20	KSUDP PROJECT DIVISION, KOZHIKODE	DIVISION OFFICE	KOZHIKODE	P H CIRCLE KOZHIKODE
21	P H DIVISION KOZHIKODE	DIVISION OFFICE	KOZHIKODE	P H CIRCLE KOZHIKODE
22	P H DIVISION VADAKARA	DIVISION OFFICE	KOZHIKODE	P H CIRCLE KOZHIKODE
23	PROJECT DIVISION KOZHIKODE	DIVISION OFFICE	KOZHIKODE	P H CIRCLE KOZHIKODE
24	P H DIVISION SULTHANBATHERY	DIVISION OFFICE	WAYANAD	P H CIRCLE KOZHIKODE
25	P H DIVISION EDAPPAL	DIVISION OFFICE	MALAPPURAM	P H CIRCLE MALAPPURAM
26	P H DIVISION MALAPURAM	DIVISION OFFICE	MALAPPURAM	P H CIRCLE MALAPPURAM
27	PROJECT DIVISION MALAPURAM	DIVISION OFFICE	MALAPPURAM	P H CIRCLE MALAPPURAM
28	P H DIVISION MUVATUPUZHA	DIVISION OFFICE	ERNAKULAM	P H CIRCLE MUVATUPUZHA
29	P H DIVISION THODUPUZHA	DIVISION OFFICE	IDUKKI	P H CIRCLE MUVATUPUZHA
30	PROJECT DIVISION KATTAPANA	DIVISION OFFICE	IDUKKI	P H CIRCLE MUVATUPUZHA
31	P H DIVISION PALAKKAD	DIVISION OFFICE	PALAKKAD	P H CIRCLE PALAKAD
32	P H DIVISION SHORNUR	DIVISION OFFICE	PALAKKAD	P H CIRCLE PALAKAD
33	W S PROJECT DIVISION PALAKKAD	DIVISION OFFICE	PALAKKAD	P H CIRCLE PALAKAD
34	P H DIVISION IRINJALAKUDA	DIVISION OFFICE	THRISSUR	P H CIRCLE THRISSUR
35	P H DIVISION THRISSUR	DIVISION OFFICE	THRISSUR	P H CIRCLE THRISSUR

36	PROJECT DIVISION NATTIKA	DIVISION OFFICE	THRISSUR	P H CIRCLE THRISSUR
37	H W DIVISION ARUVIKARA	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
38	P H DIVISION (NORTH) TRIVANDRUM	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
39	P H DIVISION SOUTH TRIVANDRUM	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
40	PROJECT DIVISION TRIVANDRUM	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
41	SEWERAGE DIVISION TRIVANDRUM	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
42	JNNURM PIU	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
43	W S DIVISION ATTINGAL	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
44	W S DIVISION NEYYATINKARA	DIVISION OFFICE	TRIVANDRUM	P H CIRCLE TRIVANDRUM
45	P H DIVISION ALAPUZHA	DIVISION OFFICE	ALAPPUZHA	PH CIRCLE ALAPPUZHA
46	UIDSSMT PROJECT DIVISION ALAPPUZHA	DIVISION OFFICE	ALAPPUZHA	PH CIRCLE ALAPPUZHA
47	QUALITY CONTROL DIVISION KOCHI	DIVISION OFFICE	ERNAKULAM	SRI NETTOOR
48	QUALITY CONTROL DIVISION KOZHIKODE	DIVISION OFFICE	KOZHIKODE	SRI NETTOOR
49	QUALITY CONTROL DIVISION TRIVANDRUM	DIVISION OFFICE	TRIVANDRUM	SRI NETTOOR

#### 11. Number of Promotions ordered in various cadres for the period from 01-04-2019 to 31-03-2020

SI No	Designation	Nos
1	Superintending Engineer to Chief Engineer	2
2	Executive Engineer to Superintending Engineer	7
3	Assistant Executive Engineer to Executive Engineer	21
4	Assistant Engineer to Assistant Executive Engineer	30
5	Draughtsman Grade I to Assistant Engineer	22
6	Draughtsman Grade II to Draughtsman Grade I	91
7	Overseer Grade III to Draughtsman Grade II	79
8	Senior Superintendent/ Revenue Officer to Accounts Officer	7
9	Divisional Accounts Officer to Senior Superintendent/ Revenue Officer	25
10	Junior Superintendent to Divisional Accounts Officer	27
11	Head Clerk to Junior Superintendent	43

12	Upper Division Clerk to Head Clerk	83
13	Lower Division Clerk to Upper Division Clerk	29
14	Surveyor to Head Surveyor	5
15	Operator to Head Operator	57
16	Meter Reader to Meter Inspectors	7
17	Plumbing Inspector to Senior Plumbing Inspector	2
18	Plumber to Plumbing Inspector	6
19	Selection Grade Driver to Vehicle Inspector	1
20	Senior Grade Driver to Selection Grade Driver	3
21	Driver Grade 1 to Senior Grade Driver	14
22	Driver Grade II to Driver Grade I	21
23	Fitter to Head Fitter	4
	<b>Total</b>	<b>586</b>

**III. Appointment in various cadres by Kerala Public Service Commission in various cadres for the period from 01-04-2019 to 31-03-2020**

<b>Sl No</b>	<b>Designation</b>	<b>Nos</b>
1	Overseer Grade III	2
2	Lascar	71
3	Operator	81
4	Draughtsman Grade II	1
5	Assistant Engineer	42
6	Surveyor	2
7	Fitter	24
8	Plumber	43
9	Worker	6
10	Unskilled Worker	3
11	Office Attendant	116
12	Watchman	116
13	L D Clerk ( Compassionate Employment Scheme)	3
14	Office Attendant ( Compassionate Employment Scheme)	7
	<b>Total</b>	<b>517</b>

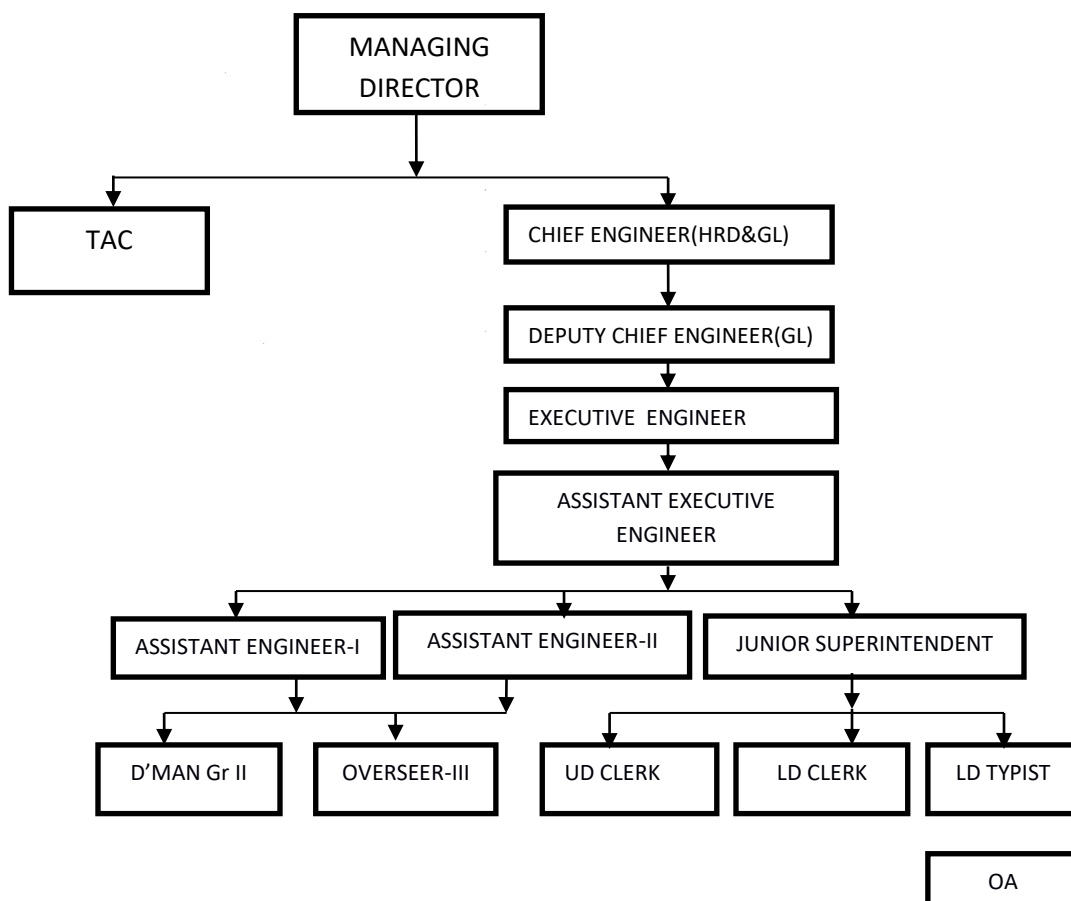
**IV. Staff Strength of Kerala Water Authority during the period 01-04-2019 to 31-03-2020**

1	Total employee strength of Kerala Water Authority	6568 Nos
2	Retirement During the year	242 Nos
3	Vacancies Reported to PSC	595 Nos
4	Dismissals during the year	1 No
5	Disciplinary proceedings against employees	27 Nos
6	No.of Vigilance Committee conducted 2019-20	9 Nos

**V. Post Created/Abolished during the year 2019-20 - Nil**

## Chapter-XII

### TRAINING ACTIVITIES



#### 12.1. Review of Training Activities During the FY: 2019-2020

A total of **2128** KWA officials were trained in the in-house training programmes during **2019-2020**. Also **11** workshops / Seminars were conducted participating 791 employees during the year and no persons were given training through the CPHEEO sponsored refresher courses. **34** officers were nominated for attending the trainings conducted by external agencies outside the state. We have also sent **34** officers for attending programs conducted by other agencies within the state. Also **4** officers were deputed for doing MTech program.

#### 12.2. Financial Performance

The plan fund available for Training, Quality Control, Research and Development was **Rs: 200** lakhs as per budget provision 2019-2020. The total expenditure (FY:

**2019-2020)** incurred up to **March 2020** for training activities is **Rs: 43,43,341/-**. This is excluding the TA and DA paid for outside trainings and in-house 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: 95** lakhs approximately, including the reimbursement claim of **Rs: 1,13,400/-** for M.Tech tuition fees and exam fees during the year **2019-2020**, hence the expenditure incurred is **Rs: 96** lakhs. Apart from this, the expenditure incurred in connection with PLE was **Rs: 79,503/-**. Thus the total expenditure incurred is **Rs: 97** lakhs.

During the last year, we have generated an income of Rs: **8,29,305/-** from external agencies both private and government as rent for training halls and hostel rooms. An amount of **Rs: 72,100/-** as arrears as on 31-03-2020 from Directorate of State Lotteries Department, Thiruvananthapuram was still pending. We have contacted and requested for paying the amount.

### 12.3. Details of In-house Trainings Conducted as per Calendar 2019-2020

Sl. No.	Title of Course	No. of Batches proposed	No. of Batches conducted	No. of Participants proposed	No. of participants attended	Remarks
1	Training on Yoga and Meditation (Part Time)	2	2	40	29	
2	Training on e-Abacus	2	2	60	48	
3	Induction Level Training to D'man	1	1	40	45	
4	Induction Level Training to AE's	1	1	40	38	
5	Training on Refresher course to D'man / Overseer	1	3	35	93	
6	Training on Communication skill and Dealing with Public	1	1	40	32	
7	Training on Stress Management	1	1	35	36	
8	Training on Tenders & contract Preparation of Tender Procedures	1	1	40	46	
9	Training on Material Management and Purchase Rules	1	1	30	28	
10	Training on Hydraulic Layout and Design of WS Components	1	1	35	39	
11	Training on Water Transmission & Distribution Engineering	1	1	35	34	

12	Induction level training to Operators	4	6	160	198	
13	Refresher course to Meter readers	2	1	70	38	
14	Refresher training to Operators	2	1	80	32	
15	Handling of Chlorine and Use of Safety Apparatus	10	5	300	129	
16	O&M Water Supply Distribution system	3	1	120	25	
17	Training on e- Tendering	1	1	30	30	
18	Training on Procurements & arranging works.	1	1	40	15	
19	Training on Operation & Maintenance of pumps & motors	2	1	70	18	
20	Training on Estimation with DSR	4	2	120	52	
21	Training on Motivation & Stress Management	1	1	35	19	
22	Training on Refresher course Price	2	2	60	60	
23	Training on NRW & Leak management	2	1	60	22	
24	Workshop on Energy Conservation & savings in Pump house.	5	1	125	19	
25	Training on Meter readers & Meter Inspectors	2	1	70	24	
26	Training on Water Quality Monitoring	1	1	30	35	
27	Induction level Training to Plumbers	1	1	40	29	
28	Training on Improving Revenue	2	1	80	17	
29	Water Treatment Plant Operations	1	1	35	24	
30	Training on Tally Accounting System	2	2	60	56	
31	Training course on KSR	2	2	60	69	
32	Training on 'Bharanabhasha-Mathrubhasha'	1	1	30	32	
33	Training on Malayalam Typing	1	1	30	27	
34	Training on Bank reconciliation & Material Accounting	1	2	30	75	
35	Training on GST	1	1	40	41	
	<b>TOTAL</b>	<b>67</b>	<b>53</b>	<b>2205</b>	<b>1554</b>	

#### 12.4. Training Outside Calendar 2019-2020

Sl. No	Name of Training	No of Batches conducted	Venue	Duration in days	No of Participants attended	Duration	Remarks
1	Training on KIIFB Project Software (PFMS)	5	CWED	5	141		
2	Training on Geographical Information system(GIS)	1	CWED	3	29		
3	Training on Standardisation of Design Procedures	1	CWED	2	37		
4	Training on Pre delivery Inspection & Witnessing Third Party Inspection	1	CWED	2	28		
5	Training for Plumbing License Examination-2019	1	CWED	1	53		
6	Training for Plumbing License Examination 2019	1	Govt. Guest House Ernakulam	1	55		
7	Training on DDFS	3	CWED	1	78		
8	Energy Conservation & pump in Pump houses at WTP, Attingal	1	W.S.Dn, Attingal	1	19	21	
9	Training on Factories & Boilers	3	O/o Factories & Boilers		134		
	<b>TOTAL</b>	<b>17</b>		<b>16</b>	<b>574</b>	<b>607</b>	

#### 12.5. Details of Workshops / Seminars

Sl. No	Name of Workshop	No of Batches	Venue	Duration in days	No of Participants	Duration	Remarks
1	Rebuild Kerala Initiative -	1	CWED	1	44		
2	Meeting on Revenue	2	CWED	2	109		



3	Workshop on Revamping of e - Abacus Software	4	CWED	3	346		
4	Technical Presentation and Review Meeting	1	CWED	1	42		
5	Workshop on Specification & Rates on Water connections, Preparation of guidelines/Procedures	1	CWED	1	41		
6	Workshop on JJM & State Plan Proposals	1	CWED	1	80		
7	Workshop on Revamping of e-Abacus billing Software	1	CWED	1	10		
8	Workshop on IT Unit	1	CWED	1	12		
9	Workshop on Automatic Meter Reading	1	CWED	1	5		
10	Review Meeting of Water Scarcity Preparedness	2	CWED	2	81		
11	PFMS Workshop	1	CWED	1	21		
	<b>TOTAL</b>	<b>16</b>		<b>15</b>	<b>791</b>		

## 12.6. CPHEEO Sponsored Outside State Trainings

Sl. No	Name of Course	Conducted by	No of Officers sponsored	Remarks
	NIL			

## 12.7. Outside State Trainings by various external agencies

Sl.No	Name of Course	Conducted by	No of officers sponsored	Remarks
1	One day Workshop on Community based water harvesting gray water management and faecal sludge treatment plant for septage treatment.	Ministry of Drinking Water & Sanitation- GOI, Mirza Ghalib Hall Scope Complex - New Delhi	1	
2	Professional Development Programme on IT enabled applications in Water Supply & Sewerage projects.	Engineering Staff College of India) ESCI, Hyderabad	3	

3	Workshop on Design, Construction and Water proofing of Liquid Retaining Structures.	Institute of Research & Development (INSTRUCT) (Bangalore)	4	
4	6th India Water Week - Exhibition & Conference	Ministry of Water Resources, River Development Ganga Rejuvenation, New Delhi	13	
5	Three day training programme on Non- Revenue Water Management	Administrative Staff College of India (ASCI), Hyderabad.	3	
6	3 days training programme on financing Rural Infrastructure projects at BIRD, Lucknow.	NABARD	2	
7	3 day AWWA India conference, Exhibition and Training workshop	AWWA	5	
8	Smart and Sustainable city Solutions	Good Governance India Foundation, Bangalore	3	
	<b>TOTAL</b>		<b>34</b>	

## 12.8. Inside State Trainings / Workshops / Seminar by External Agencies

Sl. No.	Name of course	Conducted by	No of Engineers Sponsored	Remarks
1	Training on Water Transmission and distribution Engineering	FCRI, Kanjikkodu West, Palakkad.	3	
2	Workshop on Demonstration of Right of way portal	Kerala State IT Mission (Baquit hall TVM)	10	
3	Seminar on Hydrographic Day celebration	Hydrographic survey wing (Govt Guest House TVM)	2	
4	Training course on Ground Water Resource Management	Central Ground Water Board, Kerala Region, Trivandrum.	2	
5	International cyber security Briefing "COCON-XI"	Kerala Police Association with Information Security Research Association (ISRA)	2	
6	Two day Technical Seminar by Institution of Engineers on Kerala Water Woes- Challenges & Mitigation	Institution of Engineers, Trivandrum.	5	

7	National Conference on policies & Strategies for flood Management- Kerala Scenario	IDRB- Water Resource Department	2	
8	Building new India leveraging Geospatial media Collaboration with Survey of India	Kerala State IT Mission	3	
9	Flood Hazard Mapping using Geospatial Technology	Barton hill College of Engineering, TVM.	3	
10	Waste to wealth opportunities and Challenges	Barton hill College of Engineering, TVM.	2	
	<b>TOTAL</b>		<b>34</b>	

## 12.9. M.Tech Program

Sl. No.	Name of course	No. of seats proposed	No. of participants attended	Remarks
1	M.Tech- Govt: colleges(College of Engineering- Thrissur)	2	2	
2	M.Tech- Govt: colleges(College of Engineering- Trivandrum)	2	2	
3	CPHEEO Sponsored	0	0	
	<b>TOTAL</b>	<b>4</b>	<b>4</b>	

## Chapter XIII

### 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.

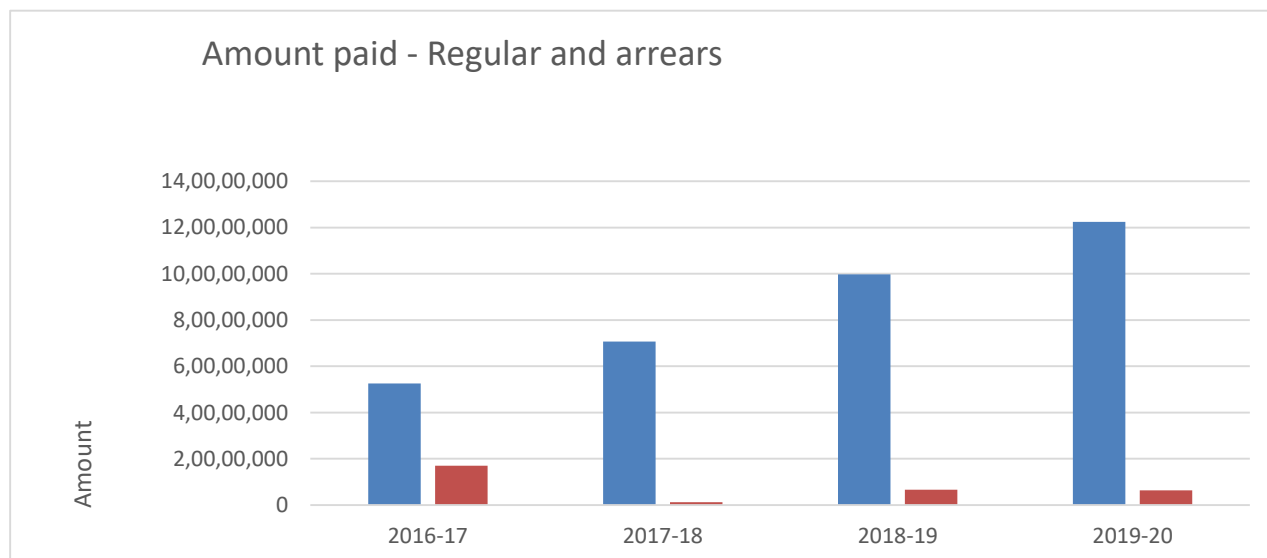
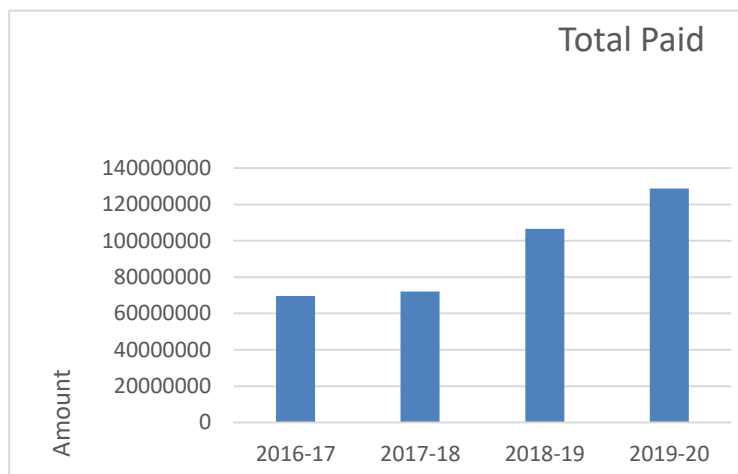
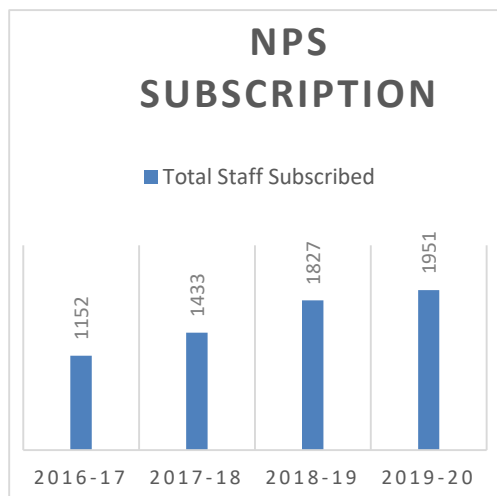
The Government of India in exercise of their executive powers adopted '[National Pension System](#)' (NPS) based on defined contributions in respect of all new entrants to Central Government services, excepting the Armed Forces, with effect from 1st January 2004. Most of the State Governments have since 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.

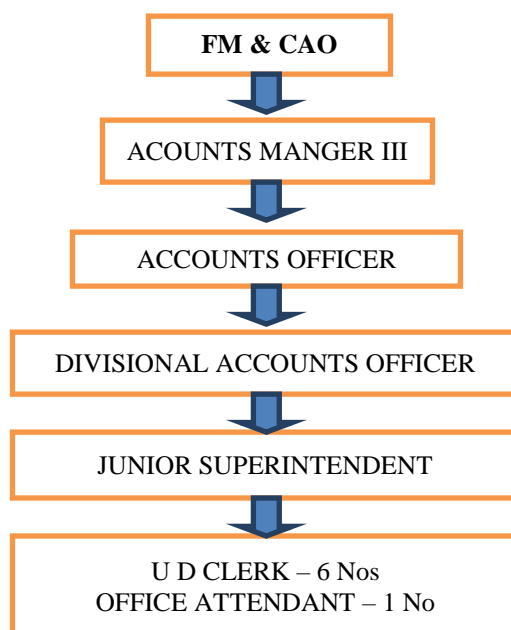
Vide Office Order No. KWA/JB/E20/O&M/7307/2006 dated 18/04/2015 NPS Cell was constituted in Head office of KWA for the implementation of NPS. In response to the application submitted to the Finance Wing, Government of Kerala for operationalization of NPS in KWA, the NSDL e-Governance Infrastructure Ltd 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 2019-20, KWA remitted Rs. 12,88,03,526/- for NPS purpose which includes Rs.12,24,20,752/- as regular subscription and Rs. 63,82,774 /- as arrears including DA arrear. For the year 2019-20, 168 number of new subscribers were registered for NPS from Kerala Water Authority. The Superannuation Withdrawal Request of two subscribers were

authorised and a total of Rs. 2,37,256.28 was transfered to their respective bank accounts during the financial year.



## Chapter XIV

### PENSION DISBURSEMENT CELL (PENSION THROUGH BANK)



Kerala Water Authority started pension payment through 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 Bank. Pre-printed cheques of Syndicate Bank were used then for disbursement of pension. The cheques for pension with 1<sup>st</sup> date of coming month were prepared and 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 pension through Bank 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 was constituted as per the direction of the Managing Director under the control of FM&CAO for payment through Bank. 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 31-03-2020**

There are 9095 pensioners as on 31-03-2020. The details are as follows,

Service pensioners	- 6712 nos.
Family pensioners	- 2364 nos.
Other type pensioners	- 19 nos.
	-----
TOTAL	- 9095 Nos.
	=====

## Chapter XV

### INTERNAL AUDIT WING

Kerala Water Authority had formed an Internal Audit Wing from its inception headed by Two Internal Auditors and two teams were formed for the conducting regular audit in various Accounts Rendering Units. Besides the regular audit, Special Audits are also being conducted as and when the various misappropriation cases informed by the KWA authorities.

At present there are two stock Verification Sub Divisions headed by Asst. Exe. Engineers functioning for the stock verification of stores and materials. One Sub Division with jurisdiction upto Ernakulam and other upto Kasaragod. These Offices were located in Thiruvananthapuram and Kozhikode respectively. The stock verification is conducted based on the pre approved programme.

During the year, 2019-20, 3 Nos of special audit and 15 Nos of regular audit have been conducted and report communicated to the concerned ARU's for rectification of the defects noticed. The replies related to PUC, PAC'COPU and C&AG Report are also furnished by the Internal Audit Wing. During the year 2019-20, the Internal Audit wing conducted review meetings for all ARU's under this organization and this has helped in reducing the number of pending paras of LAR.

The details of stock verification conducted by the sub divisions are as follows.

Name of Sub Division	Year	No. of offices verification conducted	
		Thiruvananthapuram	Kozhikode
Stock Verification Sub Division, Thiruvananthapuram	2019-20	9	18

Recently Kerala Water Authority introduced a new Material Management Software(MMS) for improving the accuracy of materials available in store (serviceable and unserviceable). About 50% of accounting process through the software has completed by the field offices. Meanwhile Board resolution has been passed and permission was given to the



Superintending Engineers and Chief Engineer for conducting auction of the unserviceable materials worth Rs. 1 Crore below and 1 Crore above respectively.

## **II Details of Audit conducted by IA Wing during 2019-20**

Audit	Year	No. of audit conducted
Regular	2019-20	15
Special	2019-20	3

## **III Details of report given and replies obtained**

Name of Audit	Year	No. of reports given	No. of reply obtained	No. of objection dropped
Internal Audit	2019-20	15 reports containing 450 Paras	3 reports containing 90 Paras	15 nos.

## **IV Details of LAR pending paras and paras dropped during the year 2019-20**

Pending paras during the year 2019-20	: 1699
Paras dropped during the year 2019-20	: 263

## **V Details of Stock Verification conducted during the year 2019-20**

Name of Sub Division	Year	No. of offices verification conducted
Stock Verification Sub Division, Thiruvananthapuram	2019-20	9
Stock Verification Sub Division, Kozhikode	2019-20	18

## VI Details of loss detected during the year 2019-20

Name of Division	Name of person	Nature of loss	Amount (in Rs.)
PH Division Kottarakkara	Sri. M M Sreekumar	Revenue Misappropriation	Rs.230047/-
PH(N) Division, Thiruvananthapuram	Sri. Darwin	Revenue Misappropriation	Rs.1493838/-
PH(N) Division, Thiruvananthapuram	Smt Anithakumari	Revenue Misappropriation	Rs. 549531/-

During 2019-20, Internal Audit Wing has conducted a special audit in WS Sub Division,Punalur, WW(west) Subdivision, Pongummoodu and Central Subdivision,Thiruvananthapuram in connection with misappropriation of water charge collection and detected a loss of **Rs.2273416/-** (interest not included)to Kerala Water Authority. The inspection report has been forwarded to Deputy Chief Engineer(Vig.), Kerala Water Authority, and recommended to initiate suitable action against Sri. M M Sreekumar ,UD Clerk, Sri. Darwin,Head Clerk and Smt Anithakumari, Junior Superintendent.

## Chapter XVI

### QUALITY CONTROL WING

Quality Control wing of KWA is doing the surveillance and monitoring of drinking water being supplied through various Water Supply Schemes. In addition to this water quality monitoring and surveillance of other water supply sources like open well, bore well etc in rural habitations are also being done under National Rural Drinking Water Programme(NRDWP). The Quality Control Wing of KWA comprises of

- State Referral Institute (SRI)
- District Labs – 14 Nos (one in each district)
- NRDWP Sub District Labs – 32 Nos

The 14 District labs are having a regular staff pattern which is entrusted for the water quality monitoring and surveillance of all water supply schemes of KWA. There is a three tier system with a definite protocol exists for conducting water sample analysis in stipulated frequency at AE/AEE/EE level. For this purpose, the schemes are classified into 5 categories. The scheme category and frequency of monitoring are shown in Table1.

<b>Table 1: Scheme Category and Frequency of Monitoring</b>				
<b>Category of KWA schemes</b>	<b>Benefitted population</b>	<b>Surveillance/Monitoring conducted by</b>		
		<b>AE</b>	<b>AEE</b>	<b>EE</b>
Category A	Population above 1 lakh	Monthly	Once in 2 months	Once in 3 months
Category B	Population above 50,000 to 1 lakh	Once in 2 months	Once in 4 months	Once in 6 months
Category C	Population above 20,000 to 49,000	Once in 3 months	Once in 6 months	At random and when required
Category D	Population above 5000 to 19000	Once in 6 months	Yearly	At random and when required
Category E	Population less than 5000	Yearly	At random / as and when required in case of problem	

At present in district Labs, drinking water are tested for 17 parameters Physico-Chemical parameters and 2 Bacteriological parameters. The details of parameters tested are shown below.

<b>Table 2: Water Quality Parameters tested in District Labs</b>	
Physico-Chemical parameters	<ol style="list-style-type: none"> <li>1. Colour</li> <li>2. Odour</li> <li>3. Turbidity</li> <li>4. pH</li> <li>5. Electrical Conductivity*</li> <li>6. Acidity *</li> <li>7. Alkalinity</li> <li>8. Sulphate</li> <li>9. Total Dissolved Solids (TDS)</li> <li>10. Total Hardness</li> <li>11. Calcium</li> <li>12. Magnesium</li> <li>13. Chloride</li> <li>14. Fluoride</li> <li>15. Iron</li> <li>16. Nitrate</li> <li>17. Residual Chlorine</li> </ol> <p style="text-align: right;">* not in BIS</p>
Bacteriologic al parameters	<ol style="list-style-type: none"> <li>18. Total Coliform</li> <li>19. E.Coli</li> </ol>

At each district lab approximately 100 No. of KWA scheme samples and an average of 200 No. of Private samples (which may hike up to 700 in certain labs) are analysed per month.

The results of water sample analysis of KWA schemes are forwarded to the concerned officers of Maintenance wing in charge of the schemes for taking corrective measures.

Moreover, chemicals such as Alum, Lime & Bleaching Powder used for water treatment in KWA schemes are also being tested in labs to ensure quality.

Under National Rural Drinking Water Programme (NRDWP), District labs and 32 Sub District labs were formulated for Conducting quality analysis and sanitary inspection of drinking water sources like open well, bore well etc in rural habitations. Each Sub district lab covers 250 sources per month. The results of water samples are uploaded in IMIS

website of Govt of India. Lab personnel are engaged on contract basis for the functioning of Sub District Labs.

The state wide apex body, State Referral Institute, which is functioning at Nettoor has got the facility for testing heavy metals and pesticides in addition to the routine parameters as mentioned above. The metal analysis including toxic elements is being done with Atomic Absorption Spectroscopy (AAS). Pesticide are analysed using Gas Chromatography. Raw water samples from intake point of schemes are tested for heavy metals & pesticides in pre-monsoon & post monsoon. The heavy metals and pesticides tested in SRI are shown in Table 3 below.

Table 3: Heavy Metals and Pesticides tested at SRI		
Toxic Substances		Other Metals
Pesticides	Metals	
1. Aldrin/Dieldrin 2. Alpha HCH 3. Beta HCH 4. Delta HCH 5. DDT 6. Endosulfan 7. Gamma HCH	1. Lead 2. Total Chromium	1. Manganese 2. Copper 3. Aluminium 4. Zinc

The State Referral Institute got NABL accreditation during March 2017 for testing 7 water quality parameters is still sustaining its accreditation status.

#### List of Divisions, Subdivisions and Labs under Quality Control Wing

Division	Subdivision	District Labs
Thiruvananthapuram	Thiruvananthapuram	Thiruvananthapuram
Kochi	Thiruvalla	Kollam
Kozhikkode	Aluva	Alappuzha
	Thrissur	Thiruvalla

	Kozhikkode	Kottayam
	Kannur	Aluva
		Painavu
		Thrissur
		Palakkad
		Kozhikkode
		Kalpetta
		Malappuram
		Kannur
		Kasargod

### Details of KWA Scheme Samples tested in year 2019-20

#### Name Division

QC Division, Kochi (Districts Ernakulam, Thrissur, Idukki and Palakkad)

Sl No	Month	Physical & Chemical Test			Bacteriological Test	
		Total No of Samples tested(Raw water)	Total No of Samples tested(Treated water)	Failed No. of Treated Water samples	Total No of Samples tested(Raw water)	Total No of Samples tested in field and Lab(Treated water)
1	April 2019	107	138	42	58	545
2	May 2019	103	174	66	50	482
3	June 2019	92	141	72	38	450
4	July 2019	92	200	98	47	501
5	August 2019	95	164	65	40	480
6	September 2019	68	121	77	25	311
7	October 2019	93	185	90	51	454
8	November 2019	101	146	93	68	447

9	December 2019	101	173	57	67	524
10	January 2020	118	154	39	75	442
11	February 2020	82	142	27	43	319
12	March 2020	70	89	10	32	179
Total		1122	1827	736	594	5134

In the various surveillance inspections, it is observed that physical parameter turbidity exceeds acceptable limit of 1NTU especially during monsoon season. Most of the Kerala Water Authority Treatment Plants are designed to treated water to a turbidity level of 5NTU, the earlier BIS limit. To meet the revised BIS standards the water treatment plants of KWA need further design augmentation. Also bacteriological contamination is seldom noticed in distribution network of rural schemes where there is no treatment process except disinfection by manual dosing and addition of bleaching powder.

## Chapter XVII

### 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 Indian Parliament in 2005. This Act is one of the mile stones in the history of India. This rule was implemented all over India in the same year.

The Kerala Water Authority took initiative to implement the Act in the same year itself by issuing necessary Orders and Circulars. Accordingly, 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. For this purpose, an Appellate Authority is required and nominated the Chief Engineer (HRD & GL) 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: 2019-20

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	1	1



**DESIGNATION OF PUBLIC INFORMATION OFFICERS/APPELLATE  
AUTHORITIES REPORTING YEAR: 2019--20 (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	307	255	52

**DISPOSAL OF INFORMATION REQUESTS BY PUBLIC INFORMATION OFFICERS  
REPORTING YEAR 2019-20(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	7	1778	1785	1762	23	6	1.29%

**INFORMATION REQUESTS REJECTED BY PUBLIC INFORMATION OFFICERS REPORTING YEAR: 2019-20 (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	23	3	0	0	0	20

**DISPOSAL OF FIRST APPEALS BY DESIGNATED APPELLATE AUTHORITIES  
REPORTING YEAR: 2019-20(Form-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	7	96	103	103	NIL	NIL	NIL

**PENALTIES IMPOSED & COLLECTED REPORTING YEAR: 2019-20  
(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 in RS
(1)	(2)	(3)	(4)	(5)
Kerala Water Authority	NIL	NIL	NIL	NIL

**DISCIPLINARY ACTION TAKEN AGAINST OFFICERS IN RESPECT OF ADMINISTRATION OF RTI ACT REPORTING YEAR 2019-20 ( 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: 2019-20(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	2800	7574	4216	3078	588	18256

## Chapter XVIII

### IMPLEMENTATION OF RIGHT TO SERVICE ACT 2012

The Kerala State Right to Service Act, 2012 came into force on 1<sup>st</sup> 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 for 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/E/1/9387/2012 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 <sup>st</sup> Appellate Authority	2 <sup>nd</sup> 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 XIX

### 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
28. W.S.Division, Tthaliparambu	-	0460-2203230	8547638301
29. PH Division, Kottarakkara	-	0474-2450787	9400002040
30. PH Division, Kaduthuruthy	-	04829-285052	8547638081

## 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 Tow
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



