

WATER SUPPLY & SANITATION

The Union Territory of Puducherry is providing portable water supply to all the villages and the towns. Puducherry region plays vital role in the Ground water resources. Karaikal, Mahe and Yanam regions depends both on surface water and ground water. The water supply system is bifurcated into:

(1) Urban Water Supply and (2) Rural Water Supply.

In Puducherry region, the urban area is divided into 9 zones and due to fast urbanization and developmental activities the peripheral areas and unutilized area in urban limit has become pucca residential areas which has resulted in formation of sub zones. About 300 tube well are being served to the population of Puducherry. The total water requirement of 100 MLD is supplied through these tubewells. After continuous pumping of ground water, the TDS level in the tube wells is getting increased. In order to supply drinking water with low TDS level, community water supply system has been introduced in 19 locations. By this system Government is supplying water in 20 litres cans through treatment plants @ ₹7/- per can.

It is also proposed to provide infiltration wells / gallery along the Sankarparani river near Thirukanji. All the infrastructure development, source augmentation from surface water from Oussudu tank and river infiltration wells/gallery will be taken up in a phased manner based on the availability of fund.

In Karaikal region to provide effective protected Water Supply with adequate pressure entire Urban and Sub Urban areas are divided into Three Zones namely Karaikal North zone, Central zone and South Zone and various Water Supply works have been undertaken. During the year 2014-15, construction of 6.00 lakh litres capacity Over Head Tank including all infrastructural facilities at Puduthurai. Construction of 1.50 lakh litres capacity Over Head Tank at Puthakudy. Erection of deep bore well at Melaponbethy. Narikurumbai, Manalmedu, Subrayapuram and Puduthurai are completed. The work of providing community Water Purification System at 10 locations in Karaikal and Construction of 3.00 lakh litre capacity Over Head Tank including all infrastructural facilities at Keezhasubrayapuram are in progress. The work of construction of 2.00 lakh litre capacity Under Ground Sump at Narikurumbai. Construction of 1.50 lakh litre capacity Over Head Tank at Melaponbethy. Inter linking pumping main from borewell at Vadakattalai village to Kottagam Over Head Tank are also taken up.

The work of comprehensive Water Supply Scheme for Central Zone of Karaikal. construction of 5 MLD Water Treatment Plant at river Arasalar will be taken up in Financial Year 2015-16.

In Mahe region works relating to improving and updating the existing water supply distribution system and also for providing water supply / public taps in internal roads /lanes / footpaths of Mahe town by extending the distribution lines will be taken up.

In Yanam region, a scheme for augmentation of water supply was completed. There are 13 nos. of over head tanks in Yanam region. An extent of 5-36-00 Hectares of land had been acquired for increasing the storage capacity of ground level reservoirs, separate pumping mains and additional sumps and motors are proposed for increasing supply hours. Augmentation of water supply scheme from the reservoir of Sir Arthur Cotton Barrage at Dowleswaram, Andhra Pradesh is in progress.

OUTLAY AT A GLANCE

Sector : WATER SUPPLY & SANITATION

No. of Schemes : 5

Department : PUBLIC WORKS

(Plan : 4 + CSS : 1)

(₹ in lakh)

Annual Plan 2013-14 Actual Expenditure : 10104.76

Annual Plan 2014-15 Approved Outlay : 12815.72

Annual Plan 2014-15 Revised Outlay : 13600.71

Annual Plan 2015-16 Approved Outlay (Plan + CSS) : 16134.28

(₹ in lakh)

Sl. No.	Name of the Scheme	Annual Plan 2013-14	Annual Plan 2014-15		Annual Plan 2015-16	
		Actual Expdr.	Approved Outlay	Revised Outlay	Approved Outlay	Of which capital content
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1.	Rural Water Supply - Operation and Maintenance.	1571.89	1031.84	2482.51	1185.00	370.00
2.	Urban Water Supply - Operation and Maintenance.	8467.87	5513.85	6219.44	7022.50	838.27
3.	Urban Sanitation.	65.00	45.00	45.00	33.75	45.00
4.	Purchase of machinery & equipments / acquisition of land	--	0.01	0.01	50.01	--
	Negotiated Loan	--	5825.00	4606.00	5443.00	5000.00
	Development of Infrastructural facilities (EAP-JICA)	--	--	--	2000.00	5000.00
Total (Plan)		10104.76	12415.70	13352.96	15734.26	11253.27

(₹ in lakh)

Name of the Centrally Sponsored Scheme		Approved Outlay 2014-15	Revised Outlay 2014-15	Approved Outlay 2015-16
5.	National Rural Drinking Water programme(CSS)	400.02	247.75	400.02
Total (Plan + CSS)		10104.76	12815.72	13600.71
				16134.28
				8578.50

Scheme No. 1

Sector : WATER SUPPLY & SANITATION

Implementing

Department : PUBLIC WORKS

1. **Name of the Scheme** : Rural Water Supply - Operation & Maintenance

2. **Objective of the Scheme** :

Towards quality improvements of the existing water supply systems in the rural areas. Purchase of machinery and equipments for execution of water supply programme in the rural areas.

3. **Actual Physical Achievements made in the Annual Plan 2013-14:**

- 5 nos. of works completed for augmentation of water supply.
- Additional source of water – 4 nos. of works completed
- 4 nos. of generator set were purchased
- Sinking of new bore well – 11 nos. of works completed
- Provide distribution line – 3 nos. of works completed
- Improvements to the existing water supply system – no's. of works completed
- 3 nos. of over head tanks were constructed
- 3 Nos. of sumps were constructed
- Face lifting and chemical treatment – 1 work completed
- 3 compound wall works were completed.
- 5 nos. of pump house were constructed
- 8 nos. of pump sets / motors were purchased
- Land acquired for the construction of over head tank and pump house.

4. **Physical Achievements for the Annual Plan 2014-15:**

- 2 nos. of works were completed for augmentation of water supply in Pudukcherry
- Additional source of water – 2 nos. of works were completed
- 6 nos. of generator set were purchased
- Sinking of new bore well – 10 nos. of works were completed
- Provide distribution line – 8 nos. of works were completed
- Improvements to the existing water supply system – 12 nos. of works were completed.
- 2 nos. of over head tanks were constructed.
- 5 nos. of sumps were constructed.

5. **Proposed Physical Targets for the Annual Plan 2015-16:**

- Augumentation of water supply programmes for the following areas viz., Kumarapalayam, Koonichempet, Anbu Nagar (Uruvaiyar), Mangalam, Thondamanatham, Vambupet, Karaiyambuthur, Panayadikuppam, Kodathur and Thirubuvanai village have also been proposed to be taken up for

- improving the water supply by construction of Over Head Tank and Under Ground Reservoir with its allied components in the Puducherry Region.
- Construction of Retaining wall and approach Road to the Newly constructed OHT at Pathakudy village in Thirunallar commune
 - Construction of 1.50lakh litres capacity OHT at Athipadagai village in Thirunallar commune , Karaikal
 - Construction of 2.00 lakh litres capacity Underground sump and other allied works at Athipadugai village in Thirunallar commune , Karaikal
 - Construction of 1.50lakh litres capacity OHT at Serumavilagai village in Thirunallar commune, Karaikal
 - Construction of 2.00 lakh litres capacity Underground sump and other allied works at Serumavilangai village in Thirunallar commune , Karaikal
 - Erection of Deep Bore Well and other allied works at Mini lake in pipe line campus ,T.R.Pattinam
 - Providing and laying of pumping main of 200mm dia OD PVC pipe in between mini lake pipe line campus and keezhavanjore OHT, T.R.Pattinam.
 - Providing and layout of 250mm dia DI pumping main from padutharakollai pump house to ITI OHT in T.R.Pattinam.
 - Construction of sump ,Pumphouse cum Generator Room and compound wall at Melaponpathy OHT Premises in Nedugadu commune
 - Construction of an OHT Capacity of 1.50 lakh litres ,at Mariamman kovil pet, Eatheru in T.R.Pattinam.
 - Construction of Compound Wall at Mariamman kovil pet, OHT Campus Eatheru in T.R.Pattinam.
 - Erection of Deep bore well and allied works at Right Bank of Aralsalar river near Melaoduthurai OHT in Neravy Commune
 - Desilting the 5th & 6th GLR in water works campus, Dariyalathippa village in Yanam.
 - Providing water supply grid for Bezawada Garden in Yanam
 - Improvements to drinking water supply in Kanakalapeta village, Yanam.
 - Replacement of delivery pipes of 1.25 lakhs OHT in Kanakalapeta water works, Yanam.
 - Construction of compound wall at western side of 55acres GLR, Yanam.
 - Urgent improvement works inside water works campus, Dariyalathippa village, Yanam.
 - Laying internal CC roads in Water works campus Dariyalathippa village, Yanam.
 - Improvements works inside water works campus in Farampeta village & Ambedkar Nagar in Yanam.
 - Providing balance protection wall on rear side of water works campus in Dariyalathippa village in Yanam.
 - Construction of compound wall at north side of 55acres GLR, Yanam.
 - Providing drinking water supply lines to Jammubadava at Kanakalapeta village in Yanam.
 - Construction of balance protection wall around 7th GLR in water works campus in Dariyalathippa village in Yanam.

- Providing 200mm dia HDPE Pumping main from 55 Acres GLRs in Yanam to Water works campus Dariyalathipa village, Yanam.

6. Remarks : Continuing Scheme.

Scheme No. 2

Sector : WATER SUPPLY & SANITATION Implementing
Department : PUBLIC WORKS

1. Name of the Scheme : Urban Water Supply - Operation and maintenance

2. Objective of the Scheme :

To provide protected drinking water to urban areas by extension of water supply lines, augmentation of urban water supply sources by construction over head tanks / reservoirs, sumps etc., Proper treatment of water for drinking water purposes. Setting up of water testing laboratories in order to improve the quality of water to the public.

3. Actual Physical Achievements made in the Annual Plan 2013-14:

- Additional source of water finding – 3 nos. of works were completed.
- Augmentation of Water Supply – 2 nos. of work were completed.
- Construction of over head reservoir – 2 nos. of work were completed.
- Distribution lines were provided & laid in 3 areas.
- Distribution grid lines – 3 nos. of works completed.
- Purchased 3 nos. of 50 hp, 100 hp, 120 hp mechanical seal for pump set
- Purchased 2 nos. of submersible motor pumps
- Additional source of water – 2 nos. of works completed.
- 4 nos. of generator sets purchased
- Sinking of new bore well – 4 nos. of works completed
- Improvements to the existing water supply system – 8 nos. of works completed.
- 1 over head tank constructed.
- 4 sumps were constructed.
- Face lifting and chemical treatment – one work completed.
- Providing and laying of DI pumping main – 3 works were completed.
- 4 nos. of compound wall works were constructed.
- 2 nos. of pump house constructed.

4. Physical Achievements for the Annual Plan 2014-15:

- Rehabilitation of Water supply System in Zone – I South & North were completed.
- Additional source of water finding – 5 Nos. of works were completed.
- Augmentation of Water Supply – 4 nos. of work were completed.

- Construction of over head reservoir – 5 nos. of works were completed.
- Providing & laying distribution line in 7 areas were completed.
- Distribution grid lines – 10 nos. of works were completed.
- 50 hp, 100 hp, 120 hp mechanical seal were purchased.
- 5 nos. of submersible motor pumps were purchased.
- Extending / improvements in water supply facilities in 10 areas were completed.
- Additional source of water – 2 Nos. of works were completed.
- 6 nos. of generator set were purchased.
- Sinking of new bore well – 13 nos. of works were completed.
- Improvements to the existing water supply system – 12 nos. of works were completed.
- 1 no. of over head tank were constructed.
- 5 nos. of sumps were constructed.
- Providing and laying of DI pumping main – 9 works were completed.
- 3 nos. of works for the construction of compound wall were completed.
- 5 nos. of pump house were constructed.

5. Proposed Physical Targets for the Annual Plan 2015-16:

- Augumentation of water supply to the urban areas of Ragevendhra Nagar, Johnsi Nagar, Raja Nagar, Subbiah Nagar, Priyadarshini Nagar, Gorimedu Shivaji Nagar, Lawspet, Shanthi Nagar.
- Distribution and Pipe line Grid in Ragevendhra Nagar, Johnsi Nagar, Raja Nagar, Subbiah Nagar, Lawspet, Shanthi Nagar.
- Construction of OHT of 20 lakhs litre capacity tank and Distribution line Grid in J.J.Nagar.
- Extending the Water supply Facilities to the Newly Developed layouts of South Zone water supply system, Karaikal.
- Supply Erection & commissioning of 2 No's of 40 HP centrifugal Motor pump sets at Ammalchathiram OHT in Karaikal
- Supply Erection & Commissioning of 62.50 KVA Genset at Vizhidiyur Main Road pump House , Karaikal
- Supply, Erection and Commissioning of 20HP centrifugal motor pump set and 1 No. 82.50 KVA Genset with all accessories at subrayapuram village in Thirunallar commune
- Interlinking the pipe line from Karukankudy Over Head Tank to Elayankudy in Thirunallar commune
- Supply, Erection and Commissioning of 20 HP centrifugal motor pump set with CI suction pipe line and electrification arrangements to the Neravy Perumal koil Over Head Tank, Neravy .
- Erection of Deep Bore well and other Infrastructure Facilities at Kanchipuram Kovilpathu in Nedugadu Commune.
- Laying of 300mm dia DI pumping main from pettai to puduthurai and Erection of Deep Bore wells at Thirunallar commune.

- Supply Erection commissioning of 250 KVA Genset at Ammalchathiram OHT in Karaikal.
- Preparation and submission of detailed project report for Underground drainage scheme to Karaikal town
- Providing and execution of HT installation for enhancement of contracted maximum demand in the existing HT service connection of Agalancannu pump house at Thirunllar commune .
- Improvements to the drinking water supply to the areas of Kanakalapeta Village in Yanam.
- Improvements to the drinking water supply to the GMC Balayogi colony in Yanam.
- Purchase of 75KV Genset for Francethippa water works Yanam.
- Improvements to the drinking water supply and Relaying of drinking water supply grid to the extension colony at Francethippa, Yanam.
- Improvements to the drinking water supply to the Kursampeta Village, Gandhi Nagar, Gopal Nagar and Yanam town in Yanam.
- Supply, erection and commissioning of 20HP Electrical motor with pump set to the Raw water pump house at Town water works in Yanam.
- Providing 160mm dia pumping line from town water works to Bezawada Garden in Yanam.
- Improvements to the French channel from Artikayalanka upto inlet point of Nalla tank in Yanam.

6. Remarks : Continuing Scheme.

Scheme No. 3

Sector : WATER SUPPLY & SANITATION

Implementing

Department : PUBLIC WORKS

1. Name of the Scheme : Urban Sanitation

2. Objective of the Scheme :

To provide sewage and sanitation facilities in the urban areas.

3. Actual Physical Achievements made in the Annual Plan 2013-14:

- Providing and laying DI pumping main
- Box culvert – 3 works completed
- Extension of distribution grid – 3 nos. of works were completed.

4. Physical Achievements for the Annual Plan 2014-15:

- Extension of sewerage facilities in left of areas of Puducherry/Karaikal/Mahe/Yanam – 12 works were completed.
- Restoration of roads for Zone VI & VII and adjoining areas in Puducherry – 12 works were completed.
- 2 recharging ponds were constructed.
- Sewerage farm at Lawspet were set up.

5. Proposed Physical Targets for the Annual Plan 2015-16:

- Supply, delivery and commissioning of one no. of voltage corrector panel for the 50 HP pumpset (1) at Chettikulam Pumping Station, Puducherry
- Supply, erection and commission of 180HP Non-clog submersible motor and pumpset for new collection well at Intermediate Pumping station at Karuvadikuppam, Puducherry.
- Supply, erection and commission of 120HP Non-clog submersible motor and pumpset for new collection well at Main Pumping station at Kuruchikuppam, Puducherry.
- Supply, erection and commission of 180HP centrifugal motor at Intermediate Pumping station at Karuvadikuppam, Puducherry
- Supplying and erection of 630A cubical panel board with 200A cable joint box and cable laying accessories at Sub Pumping Station, Puducherry.
- De-silting the sewer lines of drainage system and CCTV survey at Zone-I Phase-IX
- Extension of sewerage facilities to the area near Ponniamman Koil Street, Lawspet, Puducherry.
- Providing and laying D.I. pumping main from Debasanpet Pumping Station to intermediate Pumping Station at Karuvadikuppam including supplying and commissioning of submersible pumpset.
- Enhancing and power supply at Chettikulam Pumping Station, Puducherry.
- Extension of sewerage facilities to Vishnu Nagar Near Sami Pillai Thottam area Puducherry
- Rewiring and providing electrical fittings to Goubert Nagar Drainage Pumping Station, Puducherry.
- Delinking the existing pumping system and providing arrangement for two separate pumping systems between IPS and sewage farm, Lawspet, Puducherry.
- Replacing the damaged guide rail systems and reconstruction of damaged valve chambers at Suthanthiraponvizha Nagar Drainage Sub Pumping Station, Puducherry.
- Construction of open drain from surplus escape of recharging pond no. 2 near Airstrip side at Sewage Farm, Lawspet, Puducherry. (Reach-II)
- Construction of open drain from surplus escape of recharging pond no. 2 near Airstrip side at Sewage Farm, Lawspet, Puducherry. (Reach-III)
- Construction of collection wells, pumping station with protection wall at Jayaram Garden adjacent to E.C.R, Puducherry
- Reconstruction of damaged compound wall at the backside of Narikuravas colony at Sewage Farm, Lawspet, Puducherry.
- Supply, erection and commission of 120HP centrifugal motor at Main Pumping station at Kuruchikuppam, Puducherry.
- Supplying, erection and commissioning of 10 HP non-clog submersible pumpset at Gandhi Nagar Pumping Station, Puducherry.
- Extension of sewerage facilities to the left out small lane rearside of Cluny School, Lawspet, Puducherry.

- Extension of sewerage facilities to the left out area at Anaikarai Medu, Puducherry.
- Extension of sewerage facilities to the left out streets at Maattuthavani Street, Karuvadikuppam, Puducherry.
- Modification works at water supply pumping station for providing approach proposed Sewage Pumping Station at Jayaram Garden from ECR, Lawspet, Puducherry.

6. **Remarks** : Continuing Scheme

Scheme No. 4

Sector : WATER SUPPLY & SANITATION Implementing
 Department : PUBLIC WORKS

1. **Name of the Scheme** : Purchase of machinery & equipments / acquisition of land.

2. **Objective of the Scheme** :

Purchase of machinery and equipments for the execution of water supply programmes implemented by this Sector. Apart from this, necessary land acquisition proposal for the construction of OHTs, Pump houses for various capacities and laying of distribution lines are carried out by means of land acquisition process with the approval only from the Govt. of Puducherry.

3. **Actual Physical Achievements made in the Annual Plan 2013-14:**

- Acquisition of land in RSN0.9/4, Reddiarpalayam revenue village for construction of collection well & pumping station for zoneVI, Puducherry.

4. **Physical Achievements for the Annual Plan 2014-15:**

- Acquisition of land for construction of OHT and sum in Nainarmandapam, Sudhagar Nagar will be taken up.
- Acquisition land for sewerage scheme in Krishna Nagar will be taken up.

5. **Proposed Physical Targets for the Annual Plan 2015-16:**

- Acquisition of land for construction of OHT and sum in Nainarmandapam, Sudhagar Nagar will be taken up.
- Acquisition land for sewerage scheme in Krishna Nagar will be taken up.

6. **Remarks** : Continuing Scheme

Negotiated Loan

- Acquisition of land bearing R.S. No. 275/4 of Saram Revenue Village No. 38 for construction of collection well, pumping station and Sewage Treatment plant for Krishna Nagar underground drainage scheme in Puducherry
- Comprehensive Water Supply to the Peri-Urban areas of Puducherry District, Puducherry (Package – 3, Ariyankuppam -Zone-14)

- Comprehensive Water Supply to the Peri-Urban areas of Puducherry District, Puducherry (Package – 7, J.J. Nagar-Zone-9 Extension)
- Comprehensive Water Supply to the Peri-Urban areas of Pondicherry District, Puducherry (Package – 9, Sulthanpet -Zone-16)
- Source Augmentation from Oussudu Tank for Zone-I
- Comprehensive Water Supply Scheme for the Urban and Peri-Urban areas of Puducherry District, Puducherry – Dr. Radhakrishnan Nagar – Zone-8 Extension.
- Augmentation of Water Supply to the Sembiyapalayam and Pudukuppam Village in Nettappakkam Commue, Puducherry
- Rehabilitation of water supply distribution grid in Zone-I , Part-I (South) of Pondicherry Town.
- Rehabilitation of Water Supply Distribution grid Laying new water pipe lines with in boulevard area in lieu of rusted and old pipes.
- Rehabilitation of Water Supply distribution grid in Zone-I, Part III (North) of Podicherry town.
- Rehabilitation of Water Supply distribution grid in Zone-I, Part-II (Central) of Pondicherry Town.
- Rehabilitation of Water supply distribution grid in Zone-I, Part-II (Central), Construction of OHT raising of sump and road restoration of Pondicherry town.
- Water supply scheme for Arumpathapuram, Manavelly village, Thattanchavady and Odiampet, G.N. Palayam and adjoining areas of Oulgaret Commune, Puducherry for pumping main, distribution gril, OHT and sump.
- Laying of gravity main, Cherukkai, Mahe.
- Augmentation water supply system at Sembiapalayam and Pudukuppam village in Nettapakkam village, Puducherry
- Augmentation of water supply system in Ariyankuppam and surrounding areas zone-IV
- Augmentation of water supply system in Ariyankuppam and surrounding areas zone-V
- Moolakulam JJ Nagar is also proposed under Hudco Loan scheme submitted to Government for augmentation of water supply to Moolakulam and adjoining areas.
- Water supply distribution lines in Karaikal region.
- Replacement of very old pipeline from pumping main carrying water from Agalancannu to Karaikal.

Japan International Cooperation Agency (JICA) projects

PUDUCHERRY

- Water Supply augmentation Scheme in Urban area of Pondicherry District
- Sewerage Project for the Left-out Sanitation Urban and peri-Urban areas of Puducherry
- Package-1: source Augmentation from Oussudu tank for Zone-1 & Zone-3, House service connection for Zone-1 and OHT for Zone-3

- Package-2: Sudhana Nagar & Velrampet (Zone-10 & Zone-15)
- Package-3: Ariyankuppam (Zone-14)
- Package-4: Villianur (Zone-12)
- Package-5: Kompakkam, Ottampalayam (Zone-11)
- Package-6: Uthiravaginipet, Kanuvapet (Zone-13)
- Package-7: J.J.Nagar (Zone-9 extension)
- Package-8: Dr. Radhakrishnan Nagar – Zone-8 extension
- Package-9: Sulthanpet (Zone-16)
- Package-10: Viswanathan Nagar-Zone-2 Extension
- Package-11: Muthirapalayam (Zone-7)

KARAIKAL

- Package-1: Karaikal South Zone
- Package-2: Karaikal Central Zone
- Package-3: Karaikal North Zone
- Package-4: Thirumalairayanpattinam

Scheme No. 5

Sector : WATER SUPPLY & SANITATION

Implementing

Department : PUBLIC WORKS

1. **Name of the Scheme** : National Rural Drinking Water Programme (CSS)
2. **Objective of the Scheme** :
To provide safe and adequate drinking water supply through handpumps, piped water supply etc. to all rural areas, households and persons.
3. **Actual Physical Achievements made in the Annual Plan 2013-14:** --
4. **Physical Achievements for the Annual Plan 2014-15:**
 - An amount of ₹400.02 lakh has been allocated under CSS.
5. **Proposed Physical Targets for the Annual Plan 2015-16:**
 - An amount of ₹400.02 lakh will be released under CSS.
6. **Remarks** : Continuing Scheme