

WATER SUPPLY & SANITATION

The Ground water resources plays vital role in Puducherry region. Karaikal, Mahe and Yanam regions depends both on surface water and ground water. The water supply system is bifurcated into:

- i) Urban Water Supply and
- ii) Rural Water Supply.

The Pondicherry population is being served with about 300 tubewells. The total water requirement of 100 MLD is supplied through these tubewells. Domestic need share 16% of total ground water consumption. 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. Institutional loan will be sought for take up augmentation for this new zones. Aftermath of Tsunami and continuous pumping of ground water, the TDS level in the tube wells are getting increased. In order to supply drinking water with low TDS level, community water supply system has been introduced in 19 locations. By this community water supply system Government is supplying water in 20 litres cans through treatment plants @ Rs.7/- per can.

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

In Karaikal region all augmentation works to sources, distribution system etc, have been regularly carried out as the population of town is expanding. Construction of 5MLD treatment plant at river Arasalar, providing community water purifying system at various places, six lakh litre capacity over head tank at Puduthurai, three litre capacity over head tank at Melakaksakudy and erection of deep borewells at various places.

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.

To provide every rural person with adequate water for drinking, cooking and other domestic basic needs on a sustainable basis, a Water Supply Scheme was got sanctioned for Kodathur and Manavelly Village in Mannadipet Commune, Puducherry with 50:50 Central and State Share under National Rural Drinking Water Programme.

OUTLAY AT A GLANCE

Sector : WATER SUPPLY & SANITATION

No. of Schemes : 5

Department : PUBLIC WORKS

(Plan : 4 + CSS : 1)

(₹ in lakh)

Annual Plan 2012-13 Actual Expenditure	:	9458.51
Annual Plan 2013-14 Approved Outlay	:	13701.97
Annual Plan 2013-14 Revised Outlay	:	13594.89
Annual Plan 2014-15 Proposed Outlay (Plan + CSS)	:	13082.00
		(₹ in lakh)

Sl. No.	Name of the Scheme	Annual Plan 2012-13	Annual Plan 2013-14		Annual Plan 2014-15	
		Actual Expdr.	Approved Outlay	Revised Outlay	Proposed Outlay	Of which capital content
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1.	Rural Water Supply - Operation and Maintenance.	1134.68	1377.59	1574.07	1471.68	1471.68
2.	Urban Water Supply - Operation and Maintenance.	6138.50	6517.38	6267.14	5352.80	1281.82
3.	Urban Sanitation.	64.84	65.00	65.00	32.50	--
4.	Purchase of machinery & equipments / acquisition of land	0.40	51.00	--	--	--
	Negotiated Loan	2120.09	5691.00	5688.68	5825.00	5825.00
Total (Plan)		9458.51	13701.97	13594.89	12681.98	8578.50

Name of the Centrally Sponsored Scheme		Actual Expdr. 2013-14	Unspent Balance as on 01.04.14	Proposed Outlay 2014-15
5.	National Rural Drinking Water programme	--	0.01	400.02
Total (Plan + CSS)				13082.00

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** :

The main objective of the scheme is to improve the existing water supply systems in the rural areas and purchase of machinery and equipments for execution of water supply programme.

3. Actual Physical Achievements made in the Annual Plan 2012-13 :

- 6 nos. of works completed for augmentation of water supply.
- Additional source of water – 2 nos. of works completed
- 8 nos. of generator set, pumpset / motors purchased.
- Sinking of new bore well – 14 nos. of works completed
- Provide distribution line – 6 nos. of works completed
- Improvements to the existing water supply system – 9 nos. of works completed
- 5 nos. of over head tanks, sumps and pump houses constructed.
- Face lifting and chemical treatment – 1 work completed
- 3 compound wall works completed.
- Land acquired for the construction of over head tank and pump house.

4. Physical Achievements for the Annual Plan 2013-14:

- 5 nos. of works were taken up for augmentation of water supply
- Additional source of water – 2 nos. of works were completed
- 6 nos. of generator set and 8 nos. of pump sets / motors were purchased.
- Sinking of new bore well – 13 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.
- 5 nos. of over head tanks, sumps and pump house were constructed.
- Face lifting and chemical treatment work were completed.
- Providing and laying of DI pumping main – 9 works were completed.
- 3 nos. of works of compound wall were constructed.
- Land acquired for the construction of over head tank and pump house.

5. Proposed Physical Targets for the Annual Plan 2014-15 :

- Construction of Over Head Tank and Under Ground Reservoir with its allied components at Ariyur Anandhapuram, Keezagaram, Anbu Nagar (Uruvaiyar), Kizhur, Bahour, Karaiyambuthur, Panayadikuppam, Kirumampakkampet, Kattukuppam Andiar palayam, Nonankuppam, Thanampalayam, Kunichempet, Mannadipet, Kodathur and Manavelly, Thirubuvanai, Kumarpalayam, Vinaygampet, Sambiyapalyam, Thirubuvanaipalayam, and Kariyamanickam village.
- Supply, Erection and Commissioning of 1 No of 20HP Centrifugal Motor Pump Set to the Neravy Perumal Koil OHT.
- Construction of OHT and allied works at Melaannavasal in Nedungadu commune.
- Construction of OHT, Sump, Pump House, Compound Wall and allied works at Vadakkuvanlore in T.R.Pattinam and Keezhasubrayapuram in Thirunallar Commune.
- Erection of additional Deep Bore Well and allied works in Puthakudy Village in Nedungadu Commune.
- Providing water supply facilities to Pet area in Keezhavanjore village at T.R.Pattinam 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.
- Urgent 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 Dariyalathippa village, Yanam.

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, Package – 7, J.J. Nagar-Zone-9 Extension, Package – 9, Sulthanpet -Zone-16, Dr. Radhakrishnan Nagar – Zone-8 Extension).
- Source Augmentation from Oussudu Tank for Zone-I
- Comprehensive Water Supply Scheme for the Urban and Peri-Urban areas of Puducherry District, Puducherry –Augmentation of Water Supply to the Sembiyapalayam and Pudukuppam Village in Nettappakkam Commue, Puducherry

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 2012-13 :

- Rehabilitation of Water supply System in Zone – I/II/III/IV
- Additional source of water finding – 30 nos. of works completed.
- Augmentation of Water Supply – 24 nos. of work completed.
- Construction of over head reservoir – 18 nos. of works completed.
- Distribution lines were provided & laid in 27 areas.
- Distribution grid lines – 30 nos. of works completed.
- Purchased 30 nos. of 50 hp, 100 hp, 120 hp mechanical seal for pump set
- Purchased 29 nos. of submersible motor pumps
- Extended / improved in water supply facilities in 29 areas.
- Additional source of water – 8 nos. of works completed.
- 29 nos. of generator sets purchased
- Sinking of new bore well – 41 nos. of works completed

- Improvements to the existing water supply system – 39 nos. of works completed.
- 5 over head tanks were constructed.
- 23 sumps were constructed.
- Face lifting and chemical treatment – 5 nos. of work completed.
- Providing and laying of DI pumping main – 40 works completed.
- 35 nos. of compound wall works constructed.
- 7 nos. of pump house constructed.
- Purchased 8 nos. of pump sets / motors
- Land acquired for the construction of over head tank and pump house.

4. Physical Achievements for the Annual Plan 2013-14:

- 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 and laying distribution lines in 7 areas completed.
- Distribution grid lines – 10 nos. of works were completed.
- 50 hp, 100 hp, 120 hp mechanical seal for pump set were purchased.
- 5 nos. of submersible motor pumps were purchased.
- Extended / improved in water supply facilities in 10 areas were completed..
- Additional source of water – 2 nos. of works were completed.
- 6 nos. of generator sets 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 over head tank was constructed.
- 4 sumps were constructed.
- Face lifting and chemical treatment were completed.
- Providing and laying of DI pumping main – 9 works were completed.
- 3 nos. of works for the construction of compound wall were constructed.
- 5 nos. of pump house were constructed.
- Purchased 3 nos. of pump sets / motors.
- Land acquired for the construction of over head tank and pump house.

5. Proposed Physical Targets for the Annual Plan 2014-15 :

- Rehabilitation of Water supply System in Zone – I South & North will be completed.
- Additional source of water finding – 5 Nos. of works will be completed.
- Augmentation of Water Supply – 4 nos. of work will be completed.
- Construction of over head reservoir – 5 nos. of works will be completed.

- Providing & laying distribution line in 7 areas will be completed.
- Distribution grid lines – 10 nos. of works will be completed.
- 50 hp, 100 hp, 120 hp mechanical seal will be purchased.
- 5 nos. of submersible motor pumps will be purchased.
- Extending / improvements in water supply facilities in 10 areas will be completed.
- Additional source of water – 2 Nos. of works will be completed.
- 6 nos. of generator set will be purchased.
- Sinking of new bore well – 13 nos. of works will be completed.
- Improvements to the existing water supply system – 12 nos. of works will be completed.
- 1 no. of over head tank and 5 nos. of sumps, pump houses will be constructed.
- Face lifting and chemical treatment work will be completed.
- Providing and laying of DI pumping main – 9 works will be completed.
- 3 nos. of works for the construction of compound wall will be completed.
- 4 nos. of pump sets / motors will be purchased.
- Land will be acquired for the construction of over head tank and pump house.
- Improvements to Ammalchathiram OHT by providing approach pavement and providing two wheelers parking shed at South zone OHT Karaikal.
- Improvements to Melaoduthurai Pump House Campus by Providing Paver Block & Shed.
- Improvements to Ammalchathiram OHT.
- Providing water supply facilities to V.S.Nagar at Mudhalimedu in T.R.Pattinam.
- Installation commissioning, distribution, operation and maintenance of community water systems for the supply of purified drinking water to the people of Karaikal area wherever required for 10 locations.
- Interlinking of UPVC 160mm dia pipe line at Kanchipuram KovilPathu to MSP Lakshmi Nagar in Karaikal.
- Construction of Compound Wall to the Newly Constructed Sump at Karaikalmedu Village.
- Supplying 2 Nos of 40HP Centrifugal Motor Pump Set and 2 Nos of 40HP Submersible Motors Pumpset (Stand By) for South Zone Reservoir, Karaikal
- Supply, erection and commissioning of 62.5KVA Genset in Border Pump house in Vizhidiyur, Karaikal.
- Supply erection and commissioning of 250KVA Genset at Ammalchathiram OHT in Karaikal.
- Construction of compound wall around the 2.00 lakh liters capacity additional sump yard at Karaikalmedu in Karaikal.
- Supply, fixing and commissioning of 2 Nos. of 40HP centrifugal motor pumpset for Ammalchathiram OHT system, Karaikal.
- Face lift to the 20 Lakh liter capacity OHT capacity OHT at Central zone resirvoir campus , Karaikal.
- Erection of deep bore well and allied works at RB of Arasalar river bed in Pettai, Thirunallar commune.
- Erection of Addition Deep Bore Well at Oozhiapathu Village.

- Construction of 6.00 lakhs litres capacity Over Head Tank including all infrastructure facilities and laying of delivery line at Puduthurai Village in Karaikal.
- Supply, erection and commissioning of 20HP Centrifugal Motor Pump Set.

Japan International Cooperation Agency (JICA) projects

- Augmentation of Urban Water Supply from distance resources for Puducherry town.
- Providing distribution grid and pumping main to the Krishna nagar, Puducherry including land acquisition.

Negotiated Loan

- 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.
- Augmentation of water supply system to Mannadipet village in Mannadipet Commune, Puducherry
- Augmentation of water supply system to Thirubuvanai palayam village in Mannadipet commune, Puducherry
- Augmentation of water supply system to Vinayagampet village in Mannadipet commune, Puducherry
- Augmentation of water supply system to Kariamanickam village in Nettapakkam commune, Puducherry
- Augmentation of water supply system to Annai nagar Pillaichavady village in Oulgaret Municipality, Puducherry

- Augmentation of water supply system to Kattukuppam village in Bahour Commune, Puducherry
- Augmentation of water supply system to Pudu nagar Kanniakoil village in Bahour Commune, Puducherry
- Augmentation of water supply system to Uruvaiyar & Selva nagar in Villianur Commune, Puducherry
- Augmentation of water supply system to Thirukanji village in Villianur Commune, Puducherry
- Augmentation of water supply system to Keezhagraharam village in Villianur Commune, Puducherry
- Augmentation of water supply system to Sankaranpettai village in Villianur Commune, Puducherry
- Augmentation of water supply system to Melsathamangalam village in Villianur Commune, Puducherry
- Construction of 5MLD water treatment plant near Arasalar Tail end regulator
- Acquisition of land at R.S.No.9/4 of Reddiarpalayam Revenue Village for construction of collection well and pumping station for Zone-VI, Puducherry.

JNNURM

- Comprehensive Water Supply Scheme for the Urban and Peri-Urban areas of Puducherry District, Puducherry
- Comprehensive Water Supply Scheme for Core Urban area of Karaikal District, Puducherry
- Development of Urban Infrastructure in Puducherry (Phase I)” under JnNURM.

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 2012-13 :

- Providing and laying DI pumping main
- Box culvert – 5 works completed
- Extension of distribution grid – 7 nos. of works completed.

4. Physical Achievements for the Annual Plan 2013-14:

- Extension of sewerage facilities in left of areas of Puducherry/Karaikal/Mahe/Yanam – 25 works were completed.
- Restoration of roads for Zone VI & VII and adjoining areas in Puducherry – 25 works were completed.
- 2 recharging ponds and 5 nos. of treatment plants were constructed.
- Sewerage farm at Lawspet was set up.
- 25 nos. of approach road works were constructed.

5. Proposed Physical Targets for the Annual Plan 2014-15 :

- Construction of building for sewer man rest room in the campus of Sub Pumping Station at Lal Bahadur Sastry Street, Puducherry.
- 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, X, XI and XII.
- 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 and III).

- Replacing the damaged concrete platform after filling with HBG metal and sand grouting for the suction portions all-around the collection wells at Suthanthiraponvizha Nagar Drainage Sub Pumping Station, Puducherry.
- 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, Anaikarai Medu and 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.

JICA

- Sewerage project to the urban areas of Kalapet, Kanagachettikulam, Periya Kalapet and surrounding areas
- Sewerage project to the left out urban areas of Puducherry.
- Sewerage project to peri-urban areas of Puducherry between Ariyankuppam river to Chunnambar river in Ariyankuppam Commune Panchayat
- Sewerage project to peri-urban areas of Puducherry between Moolakulam junction to Sankaraparani river in Villianur Commune, Puducherry
- Under Ground Sewerage system at Karaikal town, Karaikal.

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 :

The aim of the scheme is to acquire land for the construction of OHTs, Pump houses for various capacities. It is proposed to purchase of machinery and equipments for execution of water supply programmes.

3. Actual Physical Achievements made in the Annual Plan 2012-13 :

- Acquisition of land in RSN0.9/4, Reddiarpalayam revenue village for construction of collection well & pumping station for zone VI, Puducherry.
- Acquisition of Land for construction of OHT and sum in Nainarmandapam, Kombakkam, Sudhagar Nagar.
- Acquisition land for sewerage scheme in Krishna Nagar.

4. Physical Achievements for the Annual Plan 2013-14:

- Acquisition of land for construction of OHT and sump in Nainarmandapam, Sudhagar Nagar were taken up.
- Acquisition land for sewerage scheme in Krishna Nagar were taken up.

5. Proposed Physical Targets for the Annual Plan 2014-15 :

- Purchase of one no. of Hero Honda splendor motor cycle to Drainage Sub-Division for replacement of condemned motor cycle (Bullet PYZ 8711)
- Purchase of Bolero pick up van for Drainage Sub-Division for replacement of condemned van PYZ 8809
- Purchase of one no. of Hero Honda splendor motor cycle to Drainage Sub-Division for replacement of condemned motor cycle (Bullet PYZ 8574)

6. Remarks : Continuing Scheme

Scheme No. 5

Sector : WATER SUPPLY & SANITATION

Implementing

Department : PUBLIC WORKS

1. Name of the Scheme : National Rural Drinking Water Programme (NRDWP) (CSS)

2. Objective of the Scheme :

It is proposed augment Water Supply to Kodathur and Manavelly Village in Mannadipet Commune, Puducherry by sinking of two Borewells, laying of Pumping main, Distribution main, Construction of Over Head Tank, Underground Reservoir, Providing Motor and Pumpset etc

3. Actual Physical Achievements made in the Annual Plan 2012-13 : --

4. Physical Achievements for the Annual Plan 2013-14:

- Construction of OHT, UGR, Laying of Pumping main, distribution Grid, Sinking of Borewell.

5. Proposed Physical Targets for the Annual Plan 2014-15 :

- Distribution line to be laid to a length of 2294 m.

6. Remarks : Continuing Scheme