

## **WATER SUPPLY & SANITATION**

Puducherry region relies totally on ground water resources. Karaikal, Mahe and Yanam regions depends both on surface water and ground water. The system of water supply is bifurcated into two major system namely, the Urban Water Supply and 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.

## OUTLAY AT A GLANCE

Sector : WATER SUPPLY & SANITATION

No. of Schemes : 4

Department : PUBLIC WORKS

(₹ in lakh)

Eleventh Plan 2007-12 Actual Expenditure	:	33718.17
Annual Plan 2011-12 Actual Expenditure	:	10690.80
Annual Plan 2012-13 Approved Outlay	:	12697.81
Annual Plan 2012-13 Revised Outlay	:	10738.14
Annual Plan 2013-14 Proposed Outlay	:	11410.97

(₹ in lakh)

Sl. No.	Name of the Scheme	Eleventh Plan 2007-12	Annual Plan 2011-12	Annual Plan 2012-13		Annual Plan 2013-14	Of which capital content
		Actual Expdr.	Actual Expdr.	Approved Outlay	Revised Outlay	Proposed Outlay	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1.	Rural Water Supply - Operation and Maintenance.	5480.97	1603.00	1910.00	1501.07	1262.74	591.89
2.	Urban Water Supply - Operation and Maintenance.	26343.97	8895.14	9752.81	9151.83	9782.23*	5099.00
3.	Urban Sanitation.	505.00	60.00	125.00	84.84	65.00	65.00
4.	Purchase of machinery & equipments / acquisition of land	895.22	13.50	910.00	0.40	301.00	1.00
5.	Grant to Panchayat for Rural Water Supply / Public Health & Rural Sanitation (LAD)	493.01	119.16	--	--	--	--
<b>Total</b>		<b>33718.17</b>	<b>10690.80</b>	<b>12697.81</b>	<b>10738.14</b>	<b>11410.97</b>	<b>5756.89</b>

\* Inclusive of ₹ 3400 under negotiated loan.

## 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 during Eleventh Five Year Plan (2007-12) :**

- i) 29 nos. of works completed for augmentation of water supply.
- ii) Additional source of water – 11 nos. of works completed
- iii) 37 nos. of generator set were purchased
- iv) Sinking of new bore well – 42 nos. of works completed
- v) Provide distribution line – 32 nos. of works completed
- vi) Improvements to the existing water supply system – 46 nos. of works completed
- vii) 18 nos. of over head tanks were constructed
- viii) 24 Nos. of sumps were constructed
- ix) Face lifting and chemical treatment – 7 works completed
- x) Providing and laying of DI pumping main – 42 works completed.
- xi) 16 compound wall works completed.
- xii) 25 nos. of pump house were constructed
- xiii) 46 nos. of pump sets / motors were purchased
- xiv) Land acquired for the construction of over head tank and pump house.

4. **Physical Achievements for the Annual Plan 2012-13:**

- i) 6 nos. of works completed for augmentation of water supply.
- ii) Additional source of water – 2 nos. of works completed
- iii) 8 nos. of generator set were purchased
- iv) Sinking of new bore well – 14 nos. of works completed
- v) Provide distribution line – 6 nos. of works completed
- vi) Improvements to the existing water supply system – 9 nos. of works completed



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 during Eleventh Five Year Plan (2007-12) :**

- i) Rehabilitation of Water supply System in Zone – I/II/III/IV
- ii) Additional source of water finding – 30 nos. of works completed.
- iii) Augmentation of Water Supply – 24 nos. of work completed.
- iv) Construction of over head reservoir – 18 nos. of works completed.
- v) Distribution lines were provided & laid in 27 areas.
- vi) Distribution grid lines – 30 nos. of works completed.
- vii) Purchased 30 nos. of 50 hp, 100 hp, 120 hp mechanical seal for pump set
- viii) Purchased 29 nos. of submersible motor pumps
- ix) Extended / improved in water supply facilities in 29 areas.
- x) Additional source of water – 8 nos. of works completed.
- xi) 29 nos. of generator sets purchased
- xii) Sinking of new bore well – 41 nos. of works completed
- xiii) Improvements to the existing water supply system – 39 nos. of works completed.
- xiv) 5 over head tanks were constructed.
- xv) 23 sumps were constructed.
- xvi) Face lifting and chemical treatment – 5 nos. of work completed.
- xvii) Providing and laying of DI pumping main – 40 works completed.
- xviii) 35 nos. of compound wall works constructed.
- xix) 7 nos. of pump house constructed.
- xx) Purchased 8 nos. of pump sets / motors
- xxi) Land acquired for the construction of over head tank and pump house.

**4. Physical Achievements for the Annual Plan 2012-13:**

- i) Rehabilitation of Water supply System in Zone in left out areas.
- ii) Additional source of water finding – 3 nos. of works completed.
- iii) Augmentation of Water Supply – 2 nos. of work completed.
- iv) Construction of over head reservoir – 2 nos. of works completed.
- v) Distribution lines were provided & laid in 3 areas.

- vi) Distribution grid lines – 3 nos. of works completed.
- vii) Purchased 3 nos. of 50 hp, 100 hp, 120 hp mechanical seal for pump set
- viii) Purchased 2 nos. of submersible motor pumps
- ix) Extended / improved in water supply facilities in 2 areas.
- x) Additional source of water – 2 nos. of works completed.
- xi) 4 nos. of generator sets purchased
- xii) Sinking of new bore well – 4 nos. of works completed
- xiii) Improvements to the existing water supply system – 8 nos. of works completed.
- xiv) 1 over head tank constructed.
- xv) 4 sumps were constructed.
- xvi) Face lifting and chemical treatment – one work completed.
- xvii) Providing and laying of DI pumping main – 3 works completed.
- xviii) 4 nos. of compound wall works constructed.
- xix) 2 nos. of pump house constructed.
- xx) Purchased 3 nos. of pump sets / motors
- xxi) Land acquired for the construction of over head tank and pump house.

**5. Proposed Physical Targets for Annual Plan 2013-14:**

- i) Rehabilitation of Water supply System in Zone – I South & North will be completed.
- ii) Additional source of water finding – 5 Nos. of works will be completed.
- iii) Augmentation of Water Supply – 4 nos. of work will be completed.
- iv) Construction of over head reservoir – 5 nos. of works will be completed.
- v) Providing & laying distribution line in 7 areas will be completed.
- vi) Distribution grid lines – 10 nos. of works will be completed.
- vii) 50 hp, 100 hp, 120 hp mechanical seal will be purchased.
- viii) 5 nos. of submersible motor pumps will be purchased.
- ix) Extending / improvements in water supply facilities in 10 areas will be completed.
- x) Additional source of water – 2 Nos. of works will be completed.
- xi) 6 nos. of generator set will be purchased.
- xii) Sinking of new bore well – 13 nos. of works will be completed.
- xiii) Improvements to the existing water supply system – 12 nos. of works will be completed.

- xiv) 1 no. of over head tank will be constructed.
- xv) 5 nos. of sumps will be constructed.
- xvi) Face lifting and chemical treatment work will be completed.
- xvii) Providing and laying of DI pumping main – 9 works will be completed.
- xviii) 3 nos. of works for the construction of compound wall will be completed.
- xix) 5 nos. of pump house will be constructed.
- xx) 4 nos. of pump sets / motors will be purchased.
- xxi) Land will be acquired for the construction of over head tank and pump house.

### **Negotiated Loan**

- i) Rehabilitation of water supply distribution grid in Zone-I , Part-I (South) of Pondicherry Town.
- ii) Rehabilitation of Water Supply Distribution grid Laying new water pipe lines with in boulevard area in lieu of rusted and old pipes.
- iii) Rehabilitation of Water Supply distribution grid in Zone-I, Part III (North) of Podicherry town.
- iv) Rehabilitation of Water Supply distribution grid in Zone-I, Part-II (Central) of Pondicherry Town.
- v) Rehabilitation of Water supply distribution grid in Zone-I, Part-II (Central), Construction of OHT raising of sump and road restoration of Pondicherry town.
- vi) 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.
- vii) Laying of gravity main, Cherukkai, Mahe.
- viii) Augmentation water supply system at Sembiapalayam and Pudukuppam village in Nettapakkam village, Puducherry
- ix) Augmentation of water supply system in Ariyankuppam and surrounding areas zone-IV
- x) Augmentation of water supply system in Ariyankuppam and surrounding areas zone-V
- xi) Moolakulam JJ Nagar is alos proposed under Hudco Loan scheme submitted to Government for augmentation of water supply to Moolakulam nd adjoining areas.

### **Japan International Cooperation Agency (JICA) projects**

- i) Construction of 5 MLD Treatment Plant at Right Bank of Arasalar in Karaikal.
- ii) Proposed Water Supply Scheme for Karaikal (Central, North and South zones).



iii) Under Ground Sewerage system at Karaikal town, Karaikal.

**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 during Eleventh Five Year Plan (2007-12) :**

- i) Augmentation of Water supply in Zone III, IV & Zone VIII – 24 works completed.
- ii) Comprehensive of Water supply Scheme – 25 works completed.
- iii) Extension of Water Supply pipe line – 5 nos. of works completed.
- iv) Erection and commissioning of gen sets – 3 nos. completed.
- v) Deep borewells in 3 areas were completed.
- vi) Replacing the old damaged distribution line – 5 nos. of works completed.
- vii) Laying of DI pumping – 4 works completed

**4. Physical Achievements for the Annual Plan 2012-13:**

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

**5. Proposed Physical Targets for Annual Plan 2013-14:**

- i) Extension of sewerage facilities in left of areas of Puducherry/Karaikal/Mahe/Yanam – 25 works will be completed.
- ii) Restoration of roads for Zone VI & VII and adjoining areas in Puducherry – 25 works will be completed.
- iii) 2 recharging ponds will be constructed.
- iv) Sewerage farm at Lawspet will be set up.
- v) 25 nos. of approach road works will be constructed.
- vi) 5 nos. of treatment plant constructed.

**6. Remarks** : Continuing Scheme

Sector : WATER SUPPLY &amp; 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 during Eleventh Five Year Plan (2007-12) :**

- i) Acquisition of temple land at Sudhana Nagar, Murungapakkam, Ramana Nagar near Velrampet Puducherry.
- ii) Acquisition of land for treatment plant for Ousudu surface water.
- iii) Acquisition of land for underground reservoir at Muthirapalayam.
- iv) Land acquisition for rain water harvesting structure at Pandakkal.

**4. Physical Achievements for the Annual Plan 2012-13:**

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

**5. Proposed Physical Targets for Annual Plan 2013-14:**

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

**6. Remarks** : Continuing Scheme