

Welcome

**PUBLIC HEALTH ENGINEERING DEPARTMENT,
HARYANA**

HARYANA AT A GLANCE

| | |
|---|-----------------------|
| Total area of Haryana State | 44,212 Sq. Km |
| Population (census 2011) | 253.53 Lacs |
| Urban Population | 88.22 Lacs (i.e. 35%) |
| %age Decadal Growth (Total) | 19.90 |
| %age Decadal Growth (Urban) | 44.25 |
| No. of towns | 80 |
| No. of towns with population one lacs and above | 20 |

URBAN DRINKING WATER SUPPLY

Sources for drinking water supply are :

- Surface water : Canals
- Ground Water : Borewells etc.
- Ranney wells

URBAN DRINKING WATER SUPPLY

- About 60% of Haryana State is having brackish ground water with TDS ranging from 2000 to 15000 mg/l.
- As such drinking water supply in those areas is based upon surface water i.e. canals etc.
- There is no perennial canal in Haryana and canals run by rotation.

URBAN AREA AT A GLANCE

- Out of total 80 No. towns, water supply & sewerage in three towns namely Panchkula, Faridabad and Gurgaon are executed and maintained by HUDA, Municipal Corporation, Faridabad and Municipal Corporation, Gurgaon respectively.
- Water supply & sewerage services in balance towns are executed and maintained by PHED.
- All the 80 towns are having piped water supply with house connection.
- Sewerage services are existing in 67 towns and work for providing sewerage is in progress in balance 13 towns.

Functions of Public Health Engineering Department

- Providing Potable Water in the Rural and Urban areas.
- Providing Sewerage facilities including Sewage Treatment Plants in the towns.
- Providing Storm Water drainage facilities in the towns.

STATUS OF DRINKING WATER SUPPLY IN URBAN AREAS

| Water supply allowance (LPCD) | No. of towns |
|-------------------------------|--------------|
| > 135 | 30 |
| 110 to 135 | 33 |
| 70 to 110 | 17 |
| Total | 80 |

SOURCE OF WATER SUPPLY

| Source of water supply | No. of towns |
|------------------------|--------------|
| Ground water | 31 |
| Surface water | 49 |

STATUS OF SEWERAGE IN URBAN AREA

- **COVERAGE**

| %age covered with Sewerage | No. of towns |
|-----------------------------------|---------------------|
| > 75% | 46 |
| 50-74% | 14 |
| < 50% | 7 |
| Work in progress | 13 |
| Total | 80 |

PER CAPITA O&M COST

A) WATER SUPPLY

| Source | O&M cost Rs/capita/Annum |
|---------------|--------------------------|
| Ground water | Rs.287.00 |
| Surface water | Rs.350.00 |

B) Sewerage

| | |
|-----------------------------|-------------------------------|
| Annual O&M cost without STP | Rs.40.00 Per capita per annum |
| Annual O&M cost of STP | Rs.18.00 Per capita per annum |

URBAN SEWERAGE

Sewage Treatment Plants (STPs) under PHED jurisdiction

| | No. of towns | No. of STPs | Capacity of STPs (mld) | Technology adopted |
|---|--------------|-------------|------------------------|----------------------|
| STPs under operation | 24 | 33 | 429 | UASB, WSP, MBBR, SBR |
| STPs under construction | 41 | 43 | 240 | MBBR, SBR |
| STPs for which land acquisition under process | 13 | 13 | 105 | MBBR, SBR |
| Total | 78 | 89 | 774 | |

•UASB – Up-flow Anaerobic Sludge Blanket Reactor

•WSP – Waste Stabilization Pond

•MBBR – Moving Bed Biological Reactor

•SBR – Sequential Batch Reactor

FINANCIAL RESOURCES

- State Plan
- Economic Stimulus Package
- NCR Planning Board.
- 13th Finance Commission.
- National River Conservation Programme
- Deposit Head for :-
 - Urban Infrastructure Development Scheme for small and Medium Towns (UIDSSMT).
 - Urban Infrastructure Development Scheme in Satellite Towns (UIDSST)

Major Initiatives taken by Haryana

- Haryana State Urban Water Policy 2012- Notified on 16th March, 2012.
 - All unmetered private water connections in towns are proposed to be converted into metered connections within a period of one year.
- Shikayat Nivaran Kendra launched on 3rd April, 2012 for redressal of public complaints and ensuring transparency.
Toll free number : 1800-1805678

Problems encountered in smooth supply of Drinking water

- Lack of awareness in General Public regarding conservation of water.
- Mushroom growth of unauthorized colonies.
- Un-Metered private water connections.
- Subsidized rates for water supply.

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- Shortage of staff as per norms.
- Illegal water connections.
- Misuse of water through online boosting pumps.
- Problem of erratic power supply.
- Shortage of canal water especially during summer season.

Major Bottle necks in delivery of sewerage services

- Blockage of sewers due to entry of cow dung, polythene and other solid waste into the sewers.
- Lack of coordination between various line departments
- Problem of disposing waste water in absence of drains
- Development of unauthorised colonies especially in low lying areas.
- Un-authorized sewer connections
- Theft of manhole covers

Major Bottlenecks encountered in delivery system of Sewage Treatment Plants

- Construction of Sewage Treatment Plants is a capital intensive and the resources are limited.
- Under utilization of the plants due to non response of consumers for taking sewer connections.
- Land problem
 - Expensive
 - Availability at times is a hindrance
 - Land acquisition is a cumbersome process
- Problem in disposal of treated water

Thanks