

### Comparison of ground water levels in Chennai City

The average annual rainfall in Chennai City is about 1200 mm and it mainly depends on South West monsoon i.e. July to September (400 mm) and North East monsoon i.e. from October to December (800 mm). The Chennai City aquifers mainly depend on both the monsoon periods for its recharge.

The Chennai Metropolitan Water Supply and Sewerage Board is monitoring ground water level and quality (TDS) every month through a network of 145 observation wells spread in 426 sq.km. In Chennai city, the subsoil condition varies such as sand, clay and hard rock formations and therefore percolation rate also varies in these soil types.

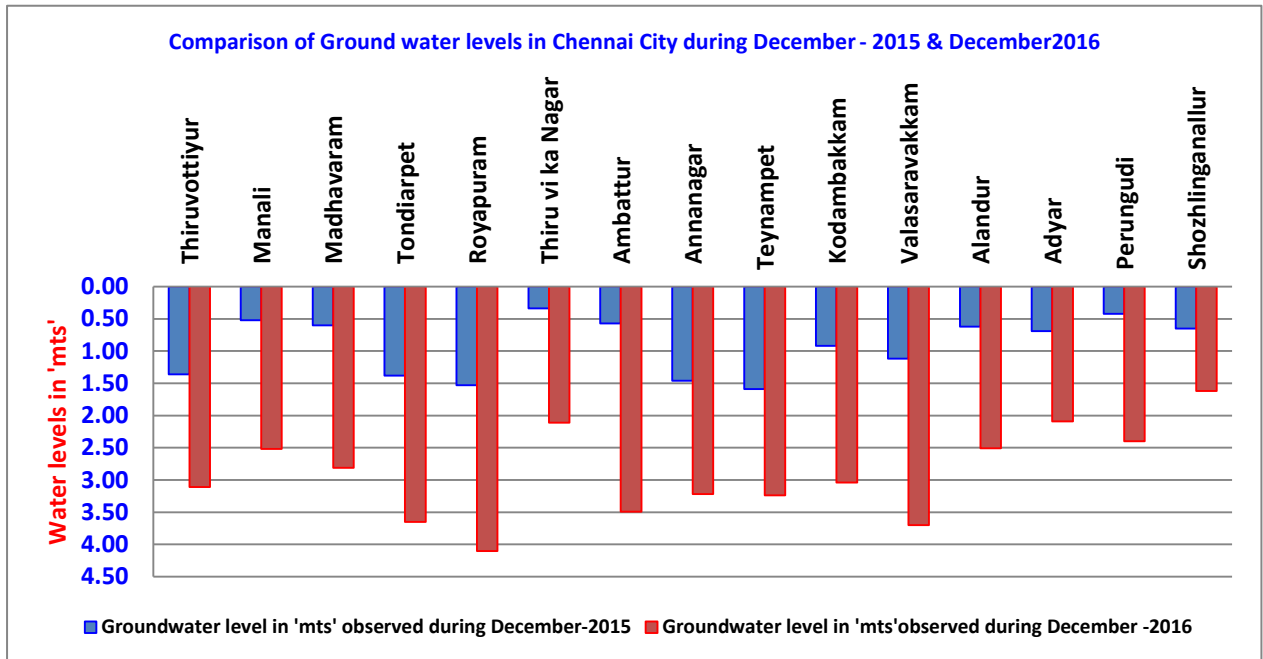
The ground water levels undergo seasonal fluctuation throughout the year. Therefore comparison of ground water level and quality has to be done with the same month of the previous year, not between different months, because the water level is always at lower level during July of every year when compared to January.

The comparison of ground water level between December 2015 and December 2016 is furnished below.

#### Comparison of water level between December 2015 and December 2016 in 15 Areas.

Areas	Groundwater level observed during December 2015	Groundwater level observed during December 2016	Difference
I - Thiruvottiyur	1.36	3.11	(-) 1.75
II - Manali	0.52	2.52	(-) 2.00
III - Madhavaram	0.60	2.81	(-) 2.21
IV - Tondiarpet	1.38	3.65	(-) 2.27
V - Royapuram	1.53	4.10	(-) 2.57
VI - Thiru vi ka Nagar	0.34	2.11	(-) 1.77
VII - Ambattur	0.57	3.49	(-) 2.92
VIII - Annanagar	1.46	3.22	(-) 1.76

IX	-	Teynampet	1.59	3.24	(-) 1.65
X	-	Kodambakkam	0.92	3.04	(-) 2.12
XI	-	Valasaravakkam	1.12	3.70	(-) 2.58
XII	-	Alandur	0.62	2.51	(-) 1.89
XIII	-	Adyar	0.69	2.09	(-) 1.40
XIV	-	Perungudi	0.42	2.40	(-) 1.98
XV	-	Shozhlinganallur	0.65	1.62	(-) 0.97



The comparative statement of average water level in 15 areas of Chennai City during the month of December 2015 and December 2016 shows that there is a fall in the water level in the range of 0.97 mts to 2.92 mts below ground level. The overall deficit of monsoon in the entire Tamil Nadu is (-) 61 % and for Chennai City is concerned the deficit is around (-) 23%.

In this regard the Chennai Metro water is requesting the residents of Chennai City to conserve the water in the following methods:

- Use the treated Metro water for drinking and cooking only.
- Ensure that the pipes and taps are leak proof.
- Close the tap while shaving and brushing teeth.
- Divert the bathroom and kitchen water to garden / Plants.
- Close the tap while not in use.

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Chennai Metrowater