

## State Profile Ground Water Scenario of Maharashtra

Area (Sq.km)	3,07,713
Rainfall (mm)	1433
Total Districts / Taluks	35 Districts

### Hydrogeology

About 85% of the State is covered by Deccan basalts whereas the rest of the State is covered by Quaternary alluvium, Gondwanas, Cuddapahs, Kaladgis, Vindhyan, Dharwars and Archaeans. Based on the hydrogeological properties of different rock formations, the State can be divided into three major groups namely Unconsolidated, Semi-consolidated and Consolidated groups. The yield of dug wells in Deccan Trap varies from 0.2 to 30 m<sup>3</sup>/hr whereas in Vindhyan, Cuddapahs and Kaladgi, it varies from 1.12-10 m<sup>3</sup>/hr. In Archaeans, yield is just 3-4 m<sup>3</sup>/hr. In the semi consolidated formations, which consists of coastal Sedimentaries, Intra-trapeans and Gondwanas, the dugwells yield between 6-12m<sup>3</sup>/hr. In unconsolidated formations, the dug wells yield between 0.5-20m<sup>3</sup>/hr.

<b>Dynamic Ground Water Resources (2011)</b>	
Annual Replenishable Ground water Resource	33.95 BCM
Net Annual Ground Water Availability	32.15 BCM
Annual Ground Water Draft	17.18 BCM
Stage of Ground Water Development	53%
<b>Ground Water Development &amp; Management</b>	
Over Exploited	10 Talukas
Critical	2 Taluka
Semi- critical	16 Talukas
Artificial Recharge to Ground Water (AR)	<ul style="list-style-type: none"> <li>▪ Area identified for AR: 130011 sq km</li> <li>▪ Volume of water to be harnessed: 2846 MCM</li> <li>▪ Volume of water to be harnessed through RTRWH: 257.43 MCM.</li> <li>▪ Feasible AR structures: <ul style="list-style-type: none"> <li>❖ Percolation tank – 9961</li> <li>❖ Check dams - 26924</li> <li>❖ Recharge Shafts (U) – 5670</li> <li>❖ Recharge Shafts ® - 772</li> <li>❖ Gabian Bund - 1500</li> <li>❖ NB/CP - 12000</li> <li>❖ RTRWH (H) - 1520000</li> <li>❖ RTRWH (G&amp;I) - 80000</li> </ul> </li> </ul>
<b>Ground Water Quality Problems</b>	
<b>Contaminants</b>	<b>Districts affected (in part)</b>
Salinity (EC > 3000 µS/cm at 25 ° C)	Amravati, Akola, Bhandara, Buldhana, Chandrapur, Dhule, Jalna, Mumbai, Nashik, Pune, Raigad, Sangli, Wardha, Thane, UT of DNH
Fluoride (>1.5 mg/l)	Amravati, Beed, Chandrapur, Bhandara, Dhule, Gadchiroli, Gondia, Jalna, Nagpur, Nanded, Ratnagiri, Sindhudurg, Yavatmal
Iron (>1.0 mg/l)	Ahmednagar, Amravati, Beed, Buldhana, Chandrapur, Dhule, Gadchiroli, Jalna, Kohlapur, Latur, Nandurbar, Nashik, Osmanabad, Parbhani, Ratnagiri, Satara, Thane, Wardha, Washim, Yavatmal

Nitrate (>45 mg/l)	Ahmednagar, Akola, Aurangabad, Beed Bhandara, Buldana, Chandrapur, Gadchiroli, Hingoli, Jalna, Kolhapur, Latur, Nagpur, Parbhani, Pune, Sangli, Thane, Wardha, Washim
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**Central Ground Water Authority**

Areas Notified for Regulation of ground water development	NIL
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