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### State Profile

#### State Profile Ground Water Scenario of Haryana

Area (Sq.km)	44,212
Rainfall (mm)	615
Total Districts / Blocks	20 districts / 108 Blocks

#### Hydrogeology

Based on yield potential characteristics of aquifers, the State can be divided into three zones. The first one comprises of 26,090 sq.km in parts of Sirsa, Hissar, Bhiwani, Mahendergarh & Jind districts, where tubewells can yield 50 m<sup>3</sup>/hr. The second one falls in parts of Hissar, Kurukshetra, Karnal, Bhiwani and Gurgaon districts, covering an area of 7100 sq.km tubewells in this zone, can yield between 50-150m<sup>3</sup>/hr. The third one extends by 9200 sq.km in parts of Ambala, Kuruskshetra, Karnal and Sonapat districts, where the yield varies between 150-200 m<sup>3</sup>/hr. An area of 1660 sq.km in parts of Gurgaon, Bhiwani and Mahendergarh districts is underlain by consolidated formations, where the yield prospects of aquifers are limited.

#### Dynamic Ground Water Resources

Annual Replenishable Ground water Resource	9.31 BCM
Net Annual Ground Water Availability	8.63 BCM
Annual Ground Water Draft	9.45 BCM
Stage of Ground Water Development	109 %

#### Ground Water Development & Management

Over Exploited	55 Blocks
Critical	11 Blocks
Semi- critical	5 Blocks
Ground Water User Maps	19 districts

Artificial Recharge to Ground Water (AR)	<ul style="list-style-type: none"> <li>Area identified for AR: 16120 sq. km.</li> <li>Quantity of Surface Water to be Recharged: 685 MCM</li> <li>Feasible AR structures: 15928 Recharge Shaft &amp; Trenches</li> <li>RWH in Urban Areas for 1.7 Lakhs houses</li> </ul>
AR schemes completed during IX Plan: 4	

#### Ground Water Quality Problems

Contaminants	Districts affected (in part)
<b>Salinity</b> (EC > 3000 $\mu$ S/cm at 25 ° C)	Bhiwani, Fatehabad, Gurgaon, Hissar, Jhajjar, Kaithal, Mahendergarh, Rewari, Rohtak, Sirsa, Sonapat
<b>Fluoride</b> (>1.5 mg/l)	Bhiwani, Faridabad, Gurgaon, Hissar, Jhajjar,

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	Jind, Kaithal, Kurushetra, Mahendergarh, Panipat, Rewari, Rohtak, Sirsa, Sonapat
<b>Chloride</b> (> 1000 mg/l)	Rohtak, Bhiwani
<b>Iron</b> (>1.0 mg/l)	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendergarh, Panipat, Rohtak, Sirsa, Sonapat, Yamuna Nagar
<b>Nitrate</b> (>45 mg/l)	Ambala, Bhiwani, Faridabad, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendergarh, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonapat, Yamuna Nagar

**Enactment of Ground Water Bill to regulate and control the development of ground water:** The draft legislation is in the process of finalization and a high level committee has been constituted under the Chairmanship of Minister for Agriculture, Haryana for examining the issue of depleting ground water resources.

**To be enacted.**

**Inclusion of Roof Top Rain Water Harvesting (RTRWH) in building by laws:**

Haryana Municipal Building Bye-laws 1982 has been amended to incorporate the provision of compulsory Roof Top RWH. been amended to incorporate the provision of compulsory Roof Top Rain Water Harvesting.

## Central Ground Water Authority

Areas Notified for Regulation of ground water development	<ul style="list-style-type: none"> <li>• Municipal Corporation of Faridabad and Ballabgarh.</li> <li>• Gurgaon town and adjoining industrial areas of Gurgaon district.</li> <li>• Narnaul block, Mahendragarh district</li> <li>• Shahbad block, Kurukshetra district</li> <li>• Nangal Chowdhary block, Mahendragarh District</li> <li>• Samalkha block, Panipat district</li> <li>• Karnal Block, Karnal district</li> <li>• Khol Block, Rewari district.</li> </ul>
Mass Awareness Programme (as on 31.03.2010)	15
Water Management Training Programme (as on 31.03.2010)	7

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