

State Profile

Ground Water Scenario of Assam

Area (Sq.km)	78,438
Physiography	<ul style="list-style-type: none"> ▪ Brahmaputra Valley. ▪ The Central Assam Ranges. ▪ Barak Valley.
Drainage	<p>Brahmaputra Basin with sub basin of Subansiri, Jia Bharali, Badeng-Pubnoi, Dhansiri, Manas, Champamati Kalang.</p> <p>Meghna Basin with sub basin of Barak river</p>
Rainfall	2409 mm(Average annual)
Total Districts / Blocks	27 Districts

Hydrogeology

Hydrogeologically the State can be divided into three units namely consolidated formation, semi consolidated formation and unconsolidated formation. More than 75% of the State is underlain by unconsolidated formation comprising of clay, silt, sand, gravel, pebble and boulders. The Bhabar belt is about 11 to 15 km wide; the tubewells yield 27 to 59 m³/hr in this zone. The Tarai zone follows immediately down slope of the Bhabar zone where the yield of the wells ranges between 80-240 m³/hr. The flood plains follow the Tarai in Brahmaputra valley where the shallow tubewells yield between 20-50 m³/hr and deep tubewells between 150-240 m³/hr. In the semi consolidated formations of Cachar District, the yield of the tubewell ranges between 50 to 100 m³/hr.

Dynamic Ground Water Resources (2011)	
Annual Replenishable Ground water Resource	28.52 BCM
Net Annual Ground Water Availability	25.79 BCM
Annual Ground Water Draft	3.49 BCM
Stage of Ground Water Development	14 %
Ground Water Development & Management	
Over Exploited	NIL
Critical	NIL
Semi- critical	NIL
Artificial Recharge to Ground Water (AR)	<ul style="list-style-type: none"> ▪ Feasible AR structures ❖ Check dam-250 ❖ Weirs-500 ❖ Gabion structure-1000 ❖ RTRWH-600 ❖ Development of springs-250
Ground Water Quality Problems	
Contaminants	Districts affected (in part)
Fluoride (>1.5 mg/l)	Goalpara, Kamrup, KarbiAnglong, Naugaon, Golaghat, Karimganj

Iron (>1.0 mg/l)	Cachar, Darrang, Dhemaji, Dhubri, Goalpara, Golaghat, Hailakandi, Jorhat, Kamrup, KarbiAnglong, Karimganj, Kokrajhar, Lakhimpur, Morigaon, Nagaon, Nalbari, Sibsagar, Sonitpur, Bongaigoan, Dibrugarh.
Arsenic (above 0.05 mg/l)	Sivsagar, Jorhat, Golaghat, Sonitpur, Lakhimpur, Dhemaji, Hailakandi, Karimganj, Cachar, Barpeta, Bongaigaon, Goalpara, Dhubri, Nalbari, Nagaon, Morigaon, Darrang&Baksha

Central Ground Water Authority

Areas Notified for Regulation of ground water development	NIL
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