State Profile

Ground Water Scenario of Binar		
Area (Sq.km)	94,163	
Rainfall (mm)	1030 mm	
Total Districts / Blocks	38 Districts	

Ground Water Scenario of Bihar

Hydrogeology

Hydrogeologically, the various litho-units of the State can be grouped as unconsolidated / Alluvial formation, semi-consolidated formations and consolidated/fissured formations. The main alluvial tract covers entire north Bihar and a sizeable area south of the Ganga River. These alluvial formations constitute prolific aquifers where the tubewell can yield between 120-247 m3/hr. The potentiality of these aquifer decreases due south in the marginal tract. Auto flow conditions occur in the sub-Tarai region of Madhubani, Sitamarhi and West Champaran Districts. In the hard rock areas of South Bihar, borewells located near lineaments/fractures can yield between 10-50 m3/hr.

Dynamic Ground Water Resources (2011)		
Annual Replenishable Ground water Resource	29.34 BCM	
Net Annual Ground Water Availability	26.88 BCM	
Annual Ground Water Draft	11.95 BCM	
Stage of Ground Water Development	44 %	
Ground Water Development & Managemen	t	
Over Exploited	NIL	
Critical	NIL	
Semi- critical	11	
Artificial Recharge to Ground Water (AR)	 Area identified for AR: 760.3 sq. km. Volume of water to be harnessed: 83.14 MCM Volume of water to be harnessed through RTRWH:23.13 Percolation tanks-227 Recharge Shafts-118 RTRWH(H)-95000 RTRWH(G&I)-5000 	
Ground Water Quality Problems		
Contaminants	Districts affected (in part)	
Fluoride (>1.5 mg/l)	Aurangabad, Banka, Bhagalpur, Buxar,	
	Gaya, Jamui, Kaimur(Bhabua), Munger,	
	Nawada, Rohtas, Supaul	
Iron (>1.0 mg/l)	Aurangabad, Begusarai, Bhojpur, Buxar,	
	East Champaran, Gopalganj, Katihar,	
	Khagaria, Kishanganj, Lakhiserai,	

	Madhepura, Muzaffarpur, Nawada, Rohtas, Saharsa, Samastipur, Siwan, Supaul, West Champaran
Nitrate (>45 mg/l)	Aurangabad, Banka, Bhagalpur, Bhojpur, Darbhanga, Kaimur(Bhabua), Patna, Rohtas, Saran, Siwan
Arsenic (>0.05 mg/l)	Begusarai, Bhagalpur, Bhojpur, Buxar, Darbhanga, Katihar, Khagaria, Kishanganj, Lakhisarai, Munger, Patna, Purnea, Samastipur, Saran, Vaishali

Central Ground Water Authority

Areas Notified for Regulation of ground water development	one
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