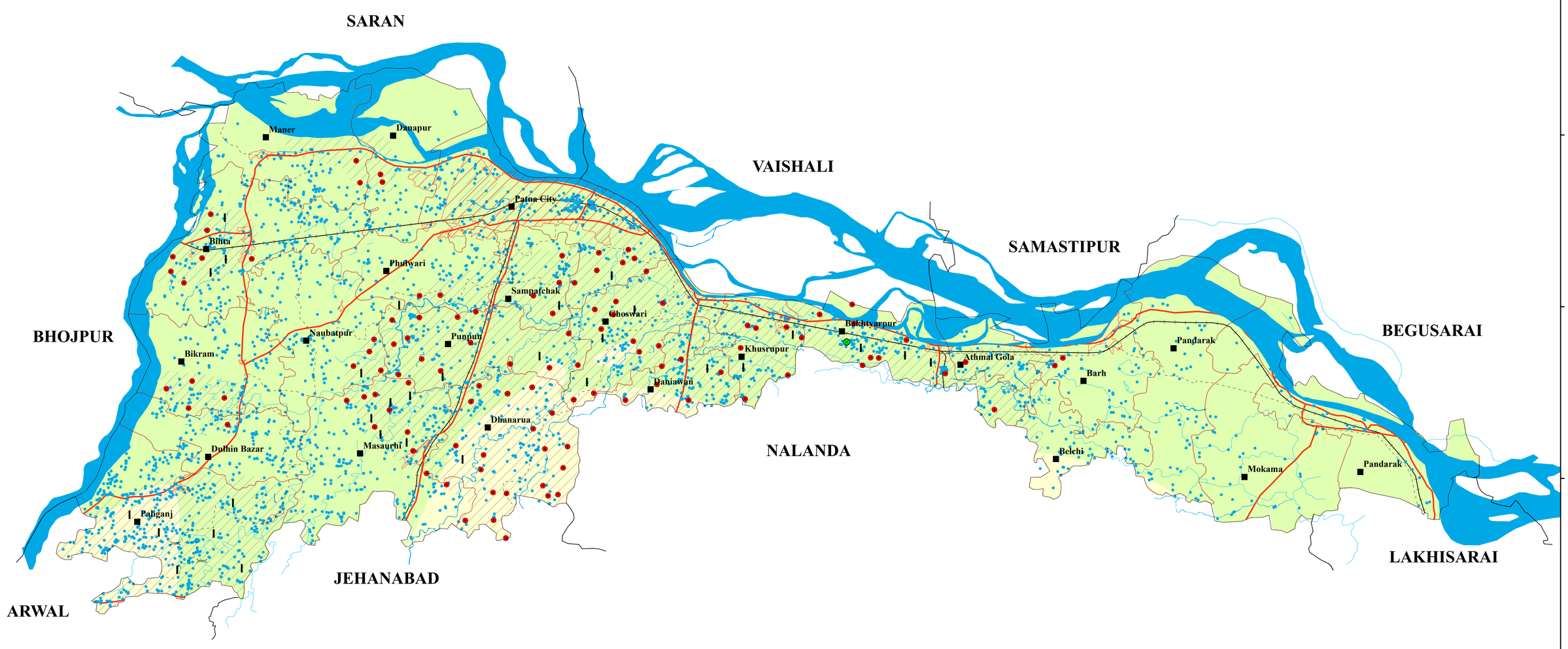
Government of India
Department of Water Resources, River Development & Ganga Rejuvenation
Ministry of Jal Shakti
Central Ground Water Board (CGWB)

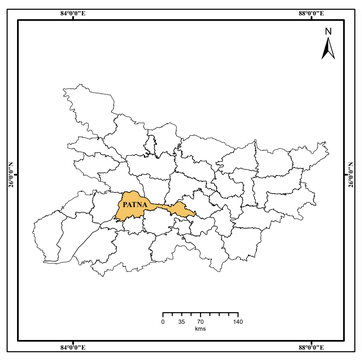
District Recharge Plan
Patna District
Bihar State



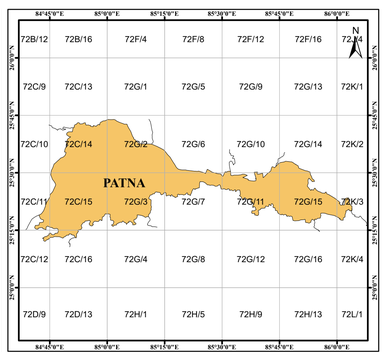
Index

- Associated Boundary
- District Boundary
- Block HQ
- Block Boundary
- Village Boundary
- Watershed Boundary
- River
- Pond/Ahar/Pyne Point
- Drainage
- Railway Line
- Major Road

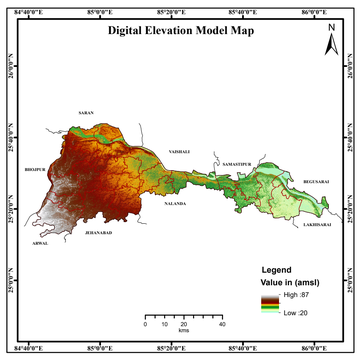
Index Map Of Bihar



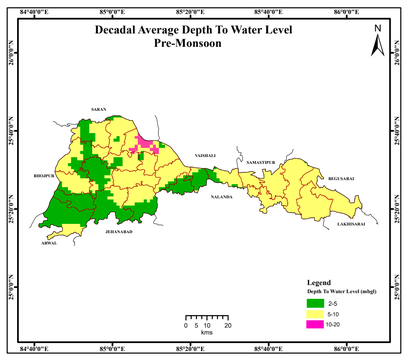
SOI Toposheet Index

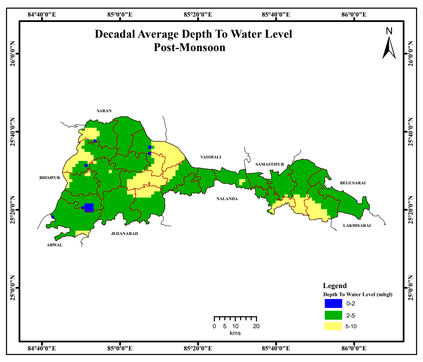


Digital Elevation Model



Depth to Water Level Maps





General Features

Geographical Area (Sq. Km)	3200.84
Blocks (Nos.)	23
Panchayat Villages (Nos.)	322
Urban Habitats (Nos.)	22
Normal Annual Rainfall (mm)	988
Area Suitable for Artificial Recharge (Sq. Km)	1267
Sub-Surface Storage Potential (MCM)	
Source Water Requirement (MCM)	385.82
Total Surplus Runoff Available (MCM)	1916.98

Artificial Recharge Structures

Type Of Structure	No. Of Proposed Structure
Nala Bund	2
Percolation Tank	1
Desiltation Of Pond	115
Injection Well	30
Urban Area	Roof Top Rain water Harvesting Structutres.All Govt. Buildings & Houses with Roof Area >200Sq.m
	Area Suitable For Artificial Recharge

Principal Aquifers

Index	Principal Aquifer
Older Alluvium	
Younger Alluvium	

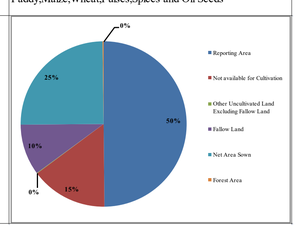
Ground Water Scenario

Decadal Average Depth To Water Level Pre-Monsoon (m bgl)	
Min	2.04
Max	13.65
Major Range	5-10
Decadal Average Depth To Water Level Post-Monsoon (m bgl)	
Min	1.12
Max	9.79
Major Range	2-5

Ground Water Quality

Water quality Parameter	Permissible limit	Obtained Value	Mandals showing more than permissible limits
Electrical Conductivity (µs/cm)	< 3000	456-1823	Nil
Fluoride (mg/l)	< 1.5	0.04-1.07	Nil
Nitrate (mg/l)	< 45	1.2-28.49	Nil

Salient Features

Major Geomorphic Landform	Mainly Covered with Alluvium and Hard Rocks Of Vindhyan Supergroup are situated at the southwestern side beyond the District boundary.
Major Issues	Arsenic contamination of ground water in the blocks adjoining to river Ganga;Shahpur,Behea,Barhara,Ara and Koliwar.
Cropping Pattern (%)	Paddy,Maize,Wheat,Pulses,Spices and Oil Seeds
Land Utilization%	

**Location of the proposed Artificial Recharge Structures shows on the map are indicative and require field verification.*

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