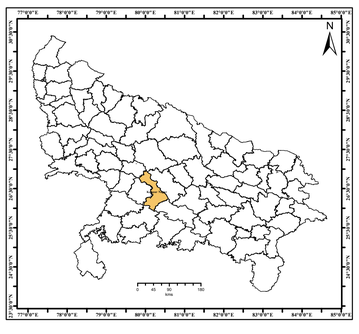
Government of India
Department of Water Resources, River Development & Ganga Rejuvenation
Ministry of Jal Shakti
Central Ground Water Board (CGWB)

District Recharge Plan
Kanpur Nagar District
Uttar Pradesh State

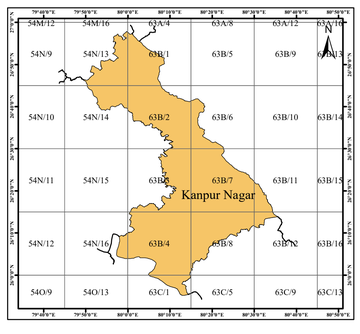
Index

- District Boundary
- Block Boundary
- Associated Boundary
- Watershed Boundary
- Pond
- Ponds in shallow water level
- Shallow water level
- Village Boundary
- Drain
- River
- Stream
- National Highway

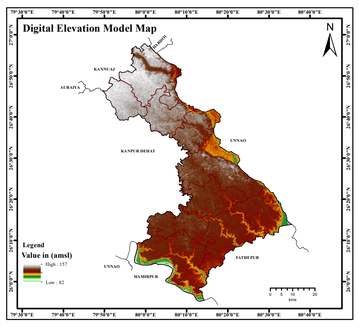
Index Map Of Uttar Pradesh



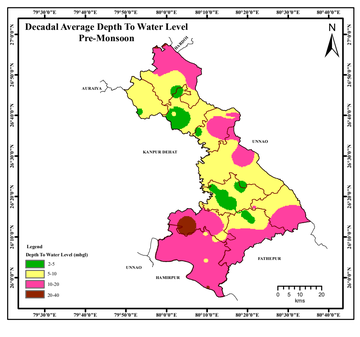
SOI Toposheet Index

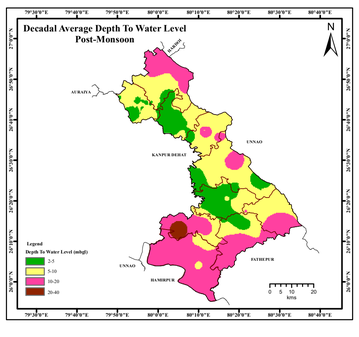


Digital Elevation Model



Depth to Water Level Maps





General Features

Geographical Area (Sq.km)	3181
Blocks (Nos.)	10
Gram Panchayaths (Nos.)	640
Urban Habitat (Nos.)	1
Normal Annual Rainfall (mm)	625
Area Suitable for AR (Sq.km)	3181
Subsurface Storage Potential (MCM)	1103
Source Water Requirement (MCM)	1467

Artificial Recharge Structures

Type of Structure	No.of Proposed Structures
Desilting Existing Pond	786
Existing Pond(For Water conservation)	958
Proposed Check dam	13
Proposed Recharge Shaft	70
Urban area	Roof Top Rain Water Harvesting Structures
	All Govt Buildings and houses with Roof Area >200 sq.km.
Shallow Water Level(<2m)	Area Suitable for Staggered Trenches, Gully plugs, Nala bunds, Gabion Sructures

Principal Aquifers

Index	Types Of Aqifer
	Younger Alluvium
	Older Alluvium

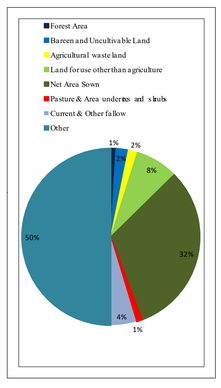
Ground Water Scenario

Decadal Average Depth To Water Level (Pre-monsoon) mbgl	
Min	1.91
Max	30.79
Major Range	5 to 10
Decadal Average Depth To Water Level (Post-monsoon) mbgl	
Min	1.20
Max	30.53
Major Range	5 to 10

Ground Water Quality

Sl.No.	Water Quality Parameter	Permissible Limits	Obtained Value	Mandals showing more than permissible limits
1	Electrical Conductivity (EC) (µS/cm)	<3000	0-1784	No Blocks above Permissible Limit
2	Fluoride(mg/l)	<1.5	0-1.90	Kakwan
3	Nitrate (mg/l)	<45	0-65	Shivrajpur

Land Utilization (%)



Salient Features

Major Geomorphic Landforms	Younger ad Older Alluvium Plain
Major Issues	Ground water Exploiation (Average SOGE- 78.57%) Deep Water Levels, Declining Water Level Trends, Sustainbility
Cropping Pattern	Major Crops: Wheat, Rice, Maize & Others

** Locations of the proposed artificial recharge structures shown on the map are indicative and require field verification & ensuring pollution free water for recharge.*

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