

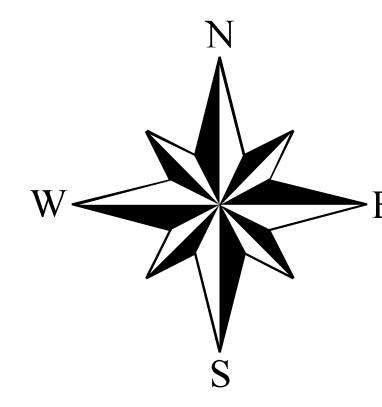
82°45'0"E

83°0'0"E



Government of India
Department of Water Resources, RD & GR
Ministry of Jal Shakti
Central Ground Water Board

District Recharge Plan Varanasi District Uttar Pradesh State



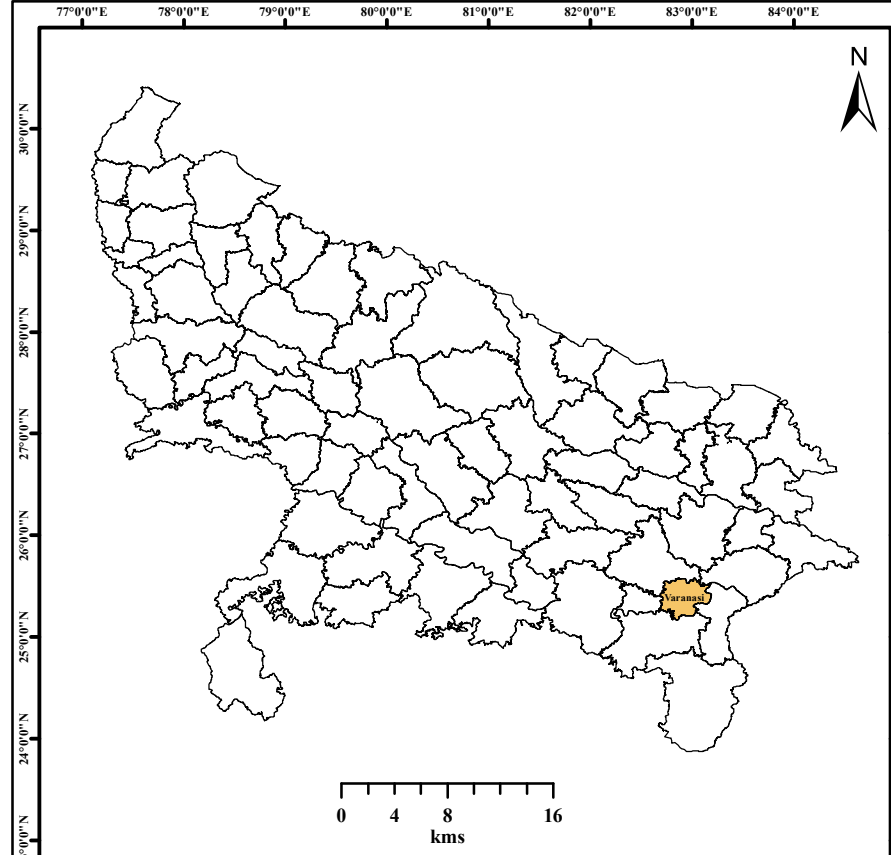
82°45'0"E

83°0'0"E

Index

- Associated Boundary
- District Boundary
- Block Boundary
- Village Boundary
- Watershed Boundary
- River / Water Bodies
- Drainage
- Major Road

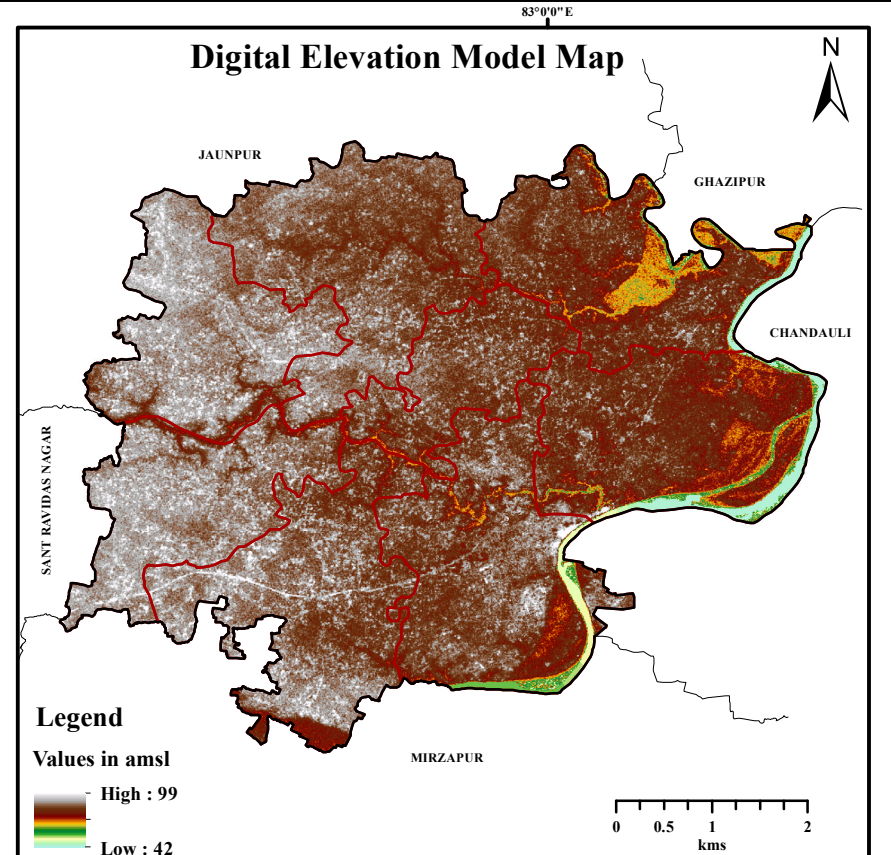
Index Map Of Uttar Pradesh



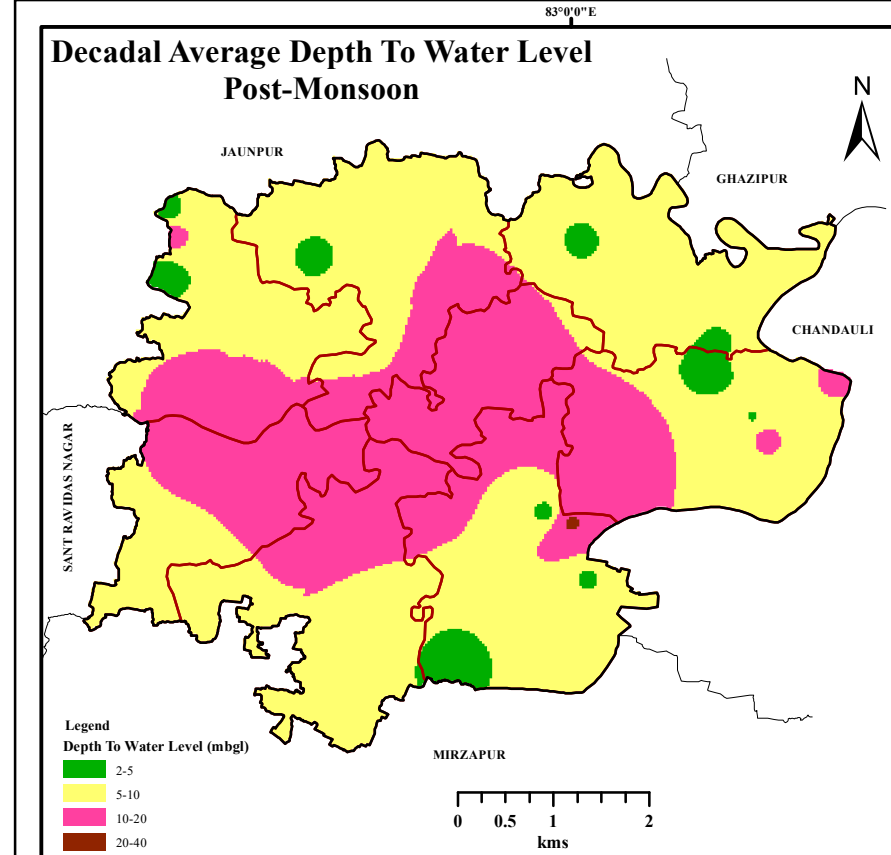
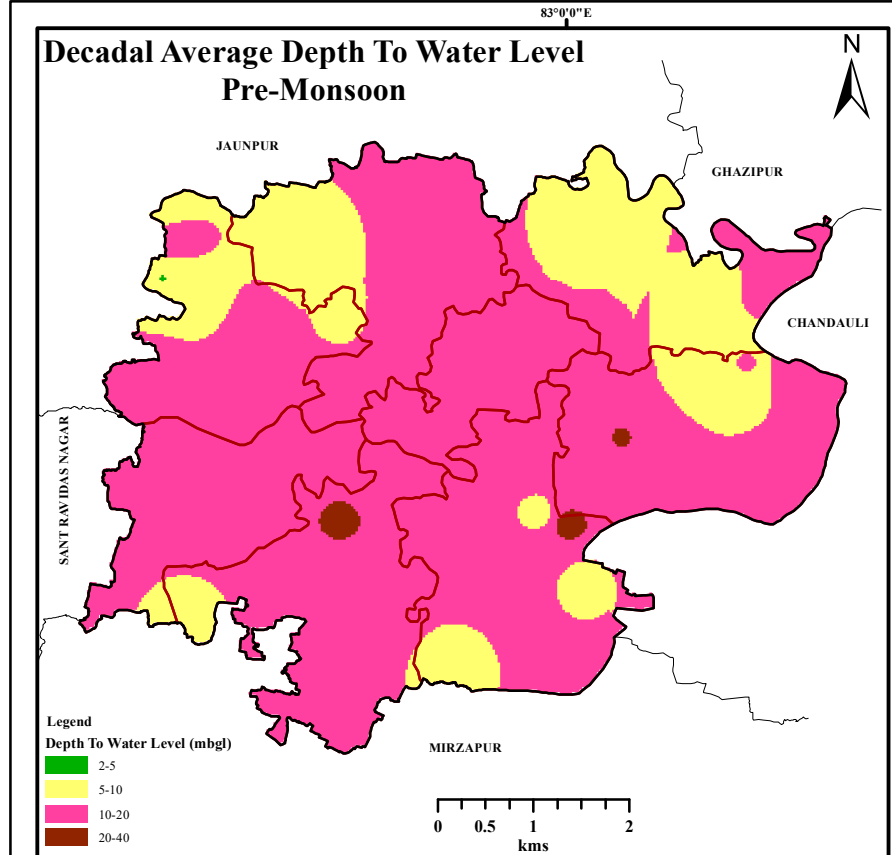
SOI Toposheet Index



Digital Elevation Model



Depth to Water Level Maps



General Features

Geographical Area (Sq.km)	1528.51
Blocks (Nos.)	8
Gram Panchayats (Nos.)	760
Urban Habitats(Nos.)	1
Normal Annual Rainfall (mm)	829.49
Area Suitable for AR (Sq.km)	1528.5
Subsurface Storage Potential (MCM)	662
Source Water Requirement (MCM)	880.46
Surplus Runoff Available (MCM)	45.64

Artificial Recharge Structure

Type of Structure	No. of Proposed Structures
Destilling /Deepening of Existing Pond	426
Existing Pond(To be protected for water Conservation)	1212
Proposed Recharge Shaft	7
Existing Check Dam	17
Proposed Check Dam	35
Urban Areas	Roof-top Rain water Harvesting Structures All Govt. Buildings & Houses with Roof Area.200sq.m
Shallow Water Level (< 5 m)	Area suitable for Water Conservation

Principal Aquifers

Index	Principal Aquifer
	Older Alluvium
	Quartzite
	Younger Alluvium

Ground Water Scenario

Decadal Average Depth To Water Level Pre-Monsoon (m bgl)	
Min	4.88
Max	24.6
Major Range	10 to 20
Decadal Average Depth To Water Level Post-Monsoon (m bgl)	
Min	2.03
Max	21.36
Major Range	5 to 10

Ground Water Quality

Water Quality Parameter	Permissible Limits	Obtained Value	Blocks showing more than permissible limits
Electrical Conductivity (EC) (µS/cm)	<3000	293 - 1118	Nil
Flouride (mg/l)	<1.5	0.23 - 0.80	Nil
Nitrate (mg/l)	<45	0 - 45.50	Kashi Vidya Peeth

Salient Features

Major Geographical Landform	Younger and Older Alluvial Plains & Quartzite
Major Issues	High Groundwater Exploitation(Average SOGE-89.07%) Pollution (Anthropogenic) Deep Water Levels Most Blocks in SC to OE Category
Cropping Pattern(%)	Major Crops - Paddy, Maize, Arhar, Wheat and Others
Land Utilization(%)	

* Locations of the proposed artificial recharge structures shown on the map are indicative and require field verification & ensuring pollution free water for recharge.
Central Ground Water Board (CGWB), NR, Lucknow, Email: rdnr-cgwb@nic.in