District Recharge Plan
Hooghly District
West Bengal State

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

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87°30'0"E 87°40'0"E 87°50'0"E 88°0'0"E 88°10'0"E 88°20'0"E 88°30'0"E

23°20'0"N 23°10'0"N 23°0'0"N 22°50'0"N 22°40'0"N 22°30'0"N

NADIA
BALAGARH
PANDUA
CHINSURAH-MAGRA
PURBA BARDHHAMAN
BANKURA
DHANIAKHALI
POLBA-DADPUR
GOGHAT-II
GOGHAT-I
ARAMBAG
PURSURA
TARAKESWAR
HARIPAL
SINGUR
NORTH 24 PARGANAS
PASCHIM MEDINIPUR
KHANAKUL-I
JANGIPARA
CHANDITALA-I
SERAMPUR UTTARPARA
CHANDITALA-II
KHANAKUL-II
HOWRAH

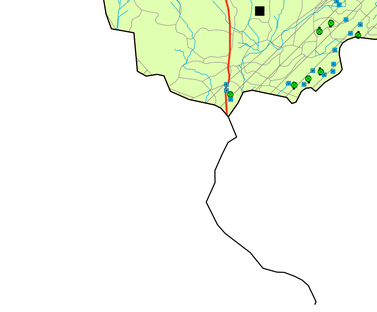
0 5 10 20
Kms

Index

- Associated Boundary
- District Boundary
- Block Boundary
- Village Boundary
- AR Priority area
- Major Roads
- Drainage
- Block Headquarter

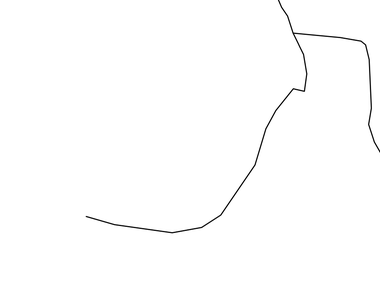
Index Map Of West Bengal State

SOI Toposheet Index



Digital Elevation Model

Depth To Water Level Map



General Features

Geographical Area (Sq.km)	3149
Blocks (Nos.)	18
Gram Panchayat (Nos.)	207
Municipalities (Nos.)	11
Normal Annual Rainfall (mm)	1476
Source water Requirement (MCM)	3238.06
Area Suitable for AR (Sq.km)	1909.14
Surface Storage Potential (MCM)	17182.27

Artificial Recharge Structures

Type of Structure	Structure	No.of Proposed Structures
Percolation Tank	⊗	612
Renovation of Existing Tank	▪	1227
Injection well	▮	588

Principal Aquifers

Index	Types Of Aqifer
	Older Alluvium
	Younger Alluvium

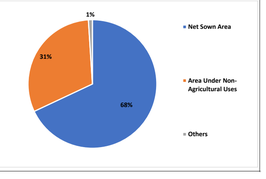
Ground Water Scenario

Decadal Average Depth To Water Level (Pre- monsoon)mbgl	
Min	0.4
Max	20.95
Major Range	10-20
Decadal Average Depth To Water Level (Post- monsoon)mbgl	
Min	0.6
Max	21.05
Major Range	10-20

Ground Water Quality

Water quality Parameter	Permissible limit	Obtained Value	Block showing more than permissible limit
Arsenic (mg/l)	0.01	0.01 to 0.60	Balagarh, Pandua, Polba, Dadpur, Singur, Serampur-Uttarpara, Goghat I, Dhaniakhali, Haripal, Chanditala II, Khanakul I, Khanakul II.
	12.22% of the affected wells are distributed in 91 habitations spread along 41 mouzas.		
Iron (mg/l)	1	0.02 - 4.62	Balagarh, Magra, Polbs Dadpur.
Nitrate (mg/l)	45	4.51 - 80.76	Balagarh

Salient Features

Major Gemorphic Landform	Active River Channel, Marshy Land, Natural Levee, Lower Alluvial Plain, Meander Flood Plain
Major Issues	Declining Water Level Trend High Iron Concentration Occurrence of Arsenic
Cropping Pattern	Kharif - 65.6% Rabi - 34.4%
Land Utilization (%)	

** Locations of the proposed Artificial Recharge Structures shown on the map are indicative and require field verification*

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