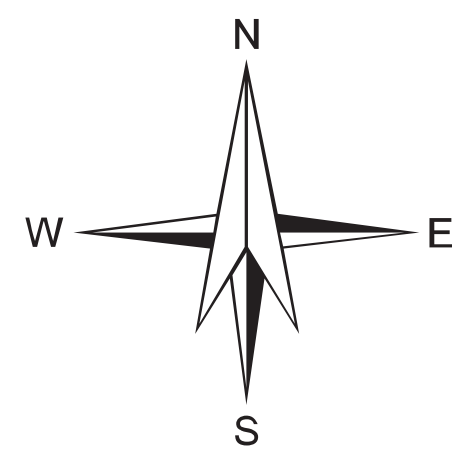
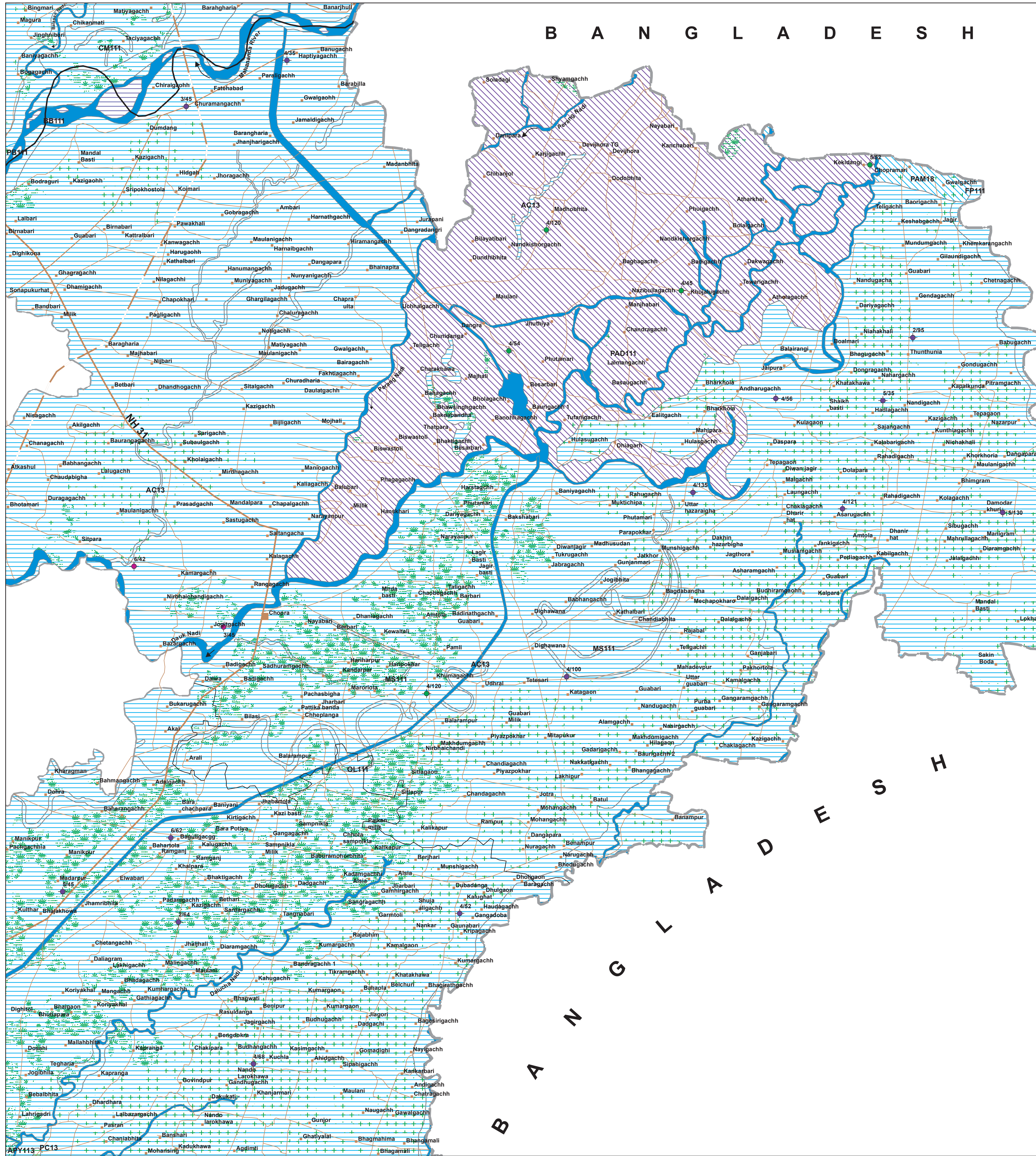


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



DARJEELING & UTTAR DINAJPUR DISTRICTS, WEST BENGAL



MAP UNIT (HYDROGEO MORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)	GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	DEPTH TO WATER LEVEL PRE / POST MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED	RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS (PROBLEMS / LIMITATIONS)	
					AQUIFER MATERIAL LS = LOOSE SEDIMENTS PS = FISSILE ROCK PS = FISSURED ROCK PR = FRACTURED ROCK WR = WEATHERED ROCK / RW = WEATHERED MATERIAL R = INFERRIYOUS ROCK	TYPE OF WELLS SUITABLE TW = DUG WELL RW = RING WELL RW = ROR WELL TW = TUBE WELL DWM = DUG CUM DORE WELL DWW = DUG CUM TUBE WELL	DEPTH RANGE OF WELLS (SUGGESTED) MN - MAX (IN METERS)	YIELD RANGE OF WELLS (EXPECTED) (in LPM or m ³ / Day)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY) VERY HIGH HIGH MODERATE LOW	QUALITY OF WATER POTABLE (P) NON - POTABLE (NP)	GROUND WATER IRRIGATED AREA (APPROX. RANGE % PERCENTAGE)			PT = PERCOLATION TANK CD = CHECK DAM DWM = DUG CUM DORE WELL ET = EXHAUSTION TANK ET = DESLTING OF TANK RP = RECHARGE PIT RD = RECHARGE DYE RS = RECHARGE DRY ST = STORAGE TANK SCW = SOL CONSERVATION MEASURES
	 Alluvium (Sand Dominant) (111)	Braid Bar (BB)	No Well Observed	Excellent	LS	TW	5-10 m	400-500 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.	
		Point Bar (PB)	No Well Observed	Very Good	LS	RW TW	5-10 m	300-400 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.	
		Oxbow Lake (OL)	No Well Observed	Good	LS	TW	20-30 m	200-300 LPM	Moderate	P	Nil	Not Required	Though occur as water bodies, but highly productive aquifer occurs at depth.	
		Meander Scar (MS)	No Well Observed	Very Good	LS	RW TW	10-15 m	200- 250 LPM	High	P	Nil	Not Required	Highly productive shallow aquifers with good recharge.	
		Flood Plain (FP)	No Well Observed	Very Good	LS	TW	<30 m	250-350 LPM	Very High	P	Nil	Not Required	Receives good recharge and forms shallow aquifer.Overall quality of the water is potable.	
		Piedmont Alluvium Deep (PAD)	$\frac{5}{4}$	Good	LS	TW	60-80 m	400-500 LPM	Moderate	p	Nil	Not Required	Good ground water prospect at greater depth as the principal aquifer occurs below PAM.	
	 Alluvium (Sand and Clay) (113)	Alluvium (Sand and Silt) (113)	Alluvial Plain Younger (APY)	$\frac{5}{17}$	Good	LS	TW	25-30 m	200-250 LPM	High	P	65	Not Required	Highly productive aquifer at shallow depth with good recharge.
		Abandoned Channel (AC)	No Well Observed	Excellent to Very Good	LS	RW TW	10-15 m	250-300 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifers with good recharge from base flow.	
		Palaeo-channel (PC)	No Well Observed	Very Good	LS	RW TW	15 - 20 m	150 - 200 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifers with good recharge.	
		Alluvium (Gravel Dominant) (18)	Piedmont Alluvium Moderate (PAM)	No Well Observed	Good	LS	TW	40-60 m	300-400 LPM	Moderate	P	10	Not Required	Good ground water prospect at greater depth along piedmont slope.
F F / /														
D D / Q Q / P P D D / Q Q / P P														
N.B.-The depth range and yield range of wells may vary within the unit because of certain inhomogeneities. Fractures/Lineaments which are clearly observed / inferred from the satellite image are indicated on the map. There could be some obscured fractures which also influence the ground water prospects. Locations of the recharge structures shown in the map are tentative. This map is useful for narrowing down the target zones, and exact location on the ground for wells and recharge structures should be identified based on follow-up ground hydrological/geophysical surveys.														

[illegible]