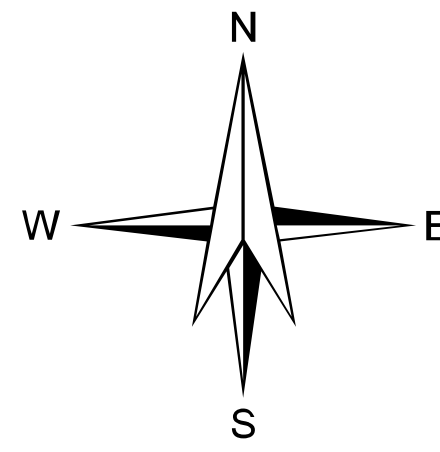
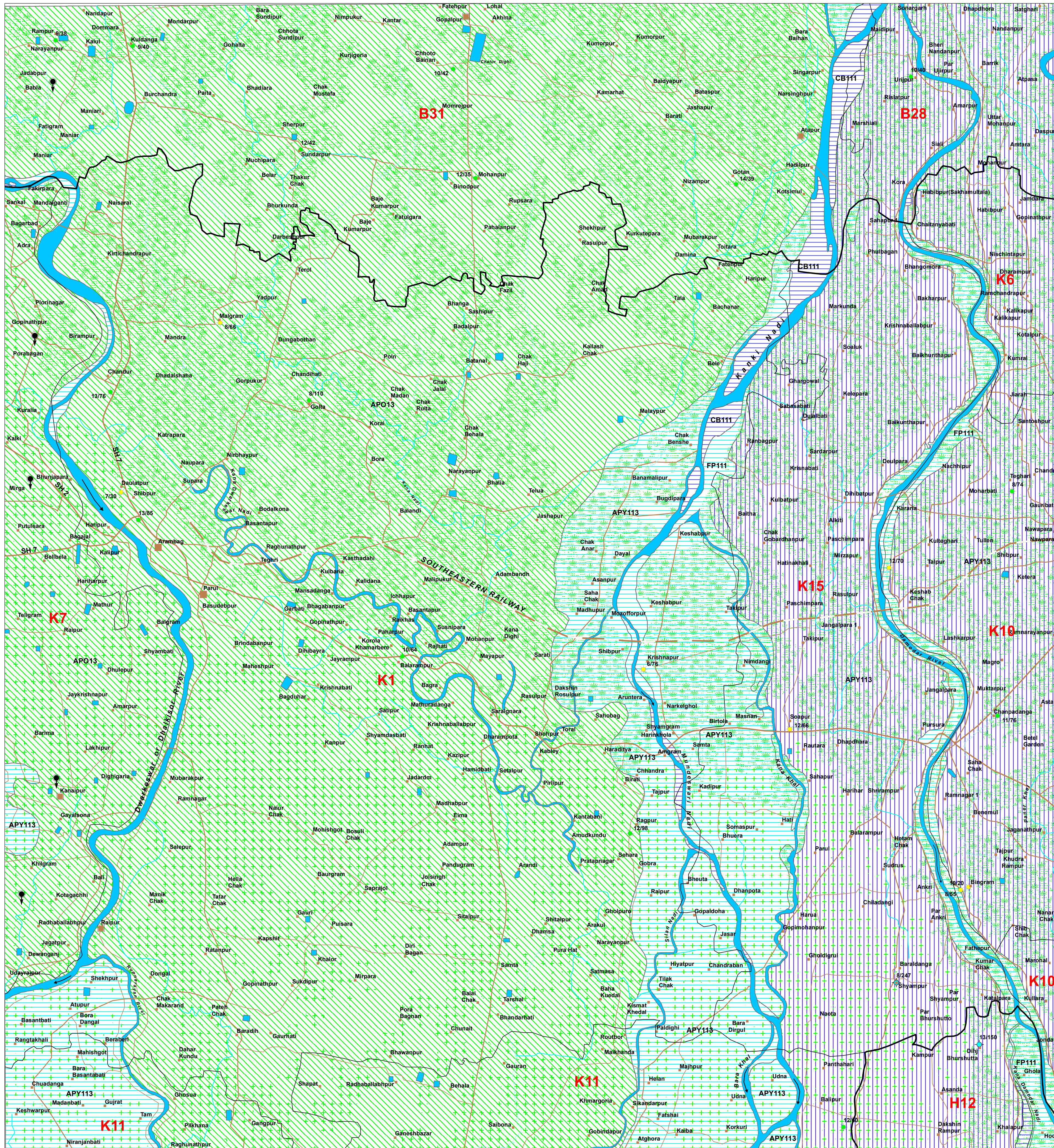


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



BARDDHAMAN, HUGLI & HOWRAH DISTRICTS, WEST BENGAL



GROUND WATER PROSPECTS															
MAP UNIT <small>(HYDROGEO MORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES FIELD BOUNDARY AND HATCHING INDICATE DEPTH RANGE)</small>	GEOLOGICAL SEQUENCE / ROCK TYPE <small>(REPRESENTED IN THE MAP WITH NUMERIC CODE)</small>	GEOMORPHIC UNIT / LANDFORM <small>(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)</small>	DEPTH TO WATER LEVEL <small>PRIE / POST MONSOON (AVERAGE IN METRES)</small> <small>NO. OF WELLS OBSERVED</small>	RECHARGE CONDITIONS <small>BASSED ON AVAILABILITY OF WATER</small> <small>(RAINFALL & OTHER SOURCES)</small>	AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS <small>(BUDGETED)</small>	YIELD RANGE OF WELLS <small>(EXPECTED)</small>	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS <small>(PROBABILITY)</small>	QUALITY OF WATER <small>POTABLE OR NON POTABLE LPM</small>	GROUND WATER IRRIGATED AREA <small>(APPROX. RANGE IN PERCENTAGE)</small>	RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS <small>(PROBLEMS / LIMITATIONS)</small>		
					<small>LS - LOOSE SEDIMENTS PE - IMPERMEABLE ROCK PB - FISSURED ROCK FR - FRACTURED ROCK WR - WEATHERED ROCK RW - RECHARGED MATERIAL R - BEDROCK</small>	<small>DW - DUG WELL BW - BORE WELL SP - SHELTERED TANK TW - TUBE WELL DWB - DUG OVER BORE WELL DTW - DUG OVER TUBE WELL</small>	<small>MW- MAX (IN METERS)</small>	<small>(IN LPM or m³/ day)</small>	<small>VERY HIGH MODERATE LOW</small>	<small>POTABLE AT NON POTABLE LPM</small>	<small>(RECHARGE RATIO % NEW FORMER)</small>	<small>PT - PRECIPITATION DATA CD - CHECK DAM NB - NALANDA RW - RECHARGE WELL DT - DESLTING OF TANK DP - DISCHARGE DO - DISCHARGE OUTFALL SG - RECHARGE SHUFF ST - STORAGE TANK SCM - SOIL CONSERVATION MEASURES</small>			
		Channel Bar (CB)	No well observed	Excellant	LS	RW 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.		
		Alluvium (Sand Dominant) (111)	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.	
		Flood Plain (FP)	15 / 9 1	Very Good	LS	TW	<30 m	200-250 LPM	Very High	p	4.3	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.		
		Alluvial Plain Younger (APY)	13 / 7 10	Good	LS	TW	100-120 m	450-500 LPM	High	NP (As&Fe) [At shallow depth]	30	RW Low	Areas with high Arsenic and Iron concentration.Potable water available at depth range above 100 m. Recharge of shallow aquifer recomended.		
		Alluvium (Sand and Silt) (113)	Alluvial Plain Younger (APY)	No well observed	Good	LS	TW	25-30 m	200-250 LPM	High	p	30	Not Required	Potable water available at depth range below 30m.	
		Abandoned Channel (AC)	No well observed	Very Good	LS	RW TW	10-15 m	250-300 LPM	Very High	p	Nil	Not Required	Areas of very high groundwater potential at shallow depth.Most suitable for extraction of groundwater.		
		Alluvium (Sand,Silt & Clay) (13)	Alluvial Plain Older (APO)	13 / 9 13	Moderate to Good	LS	TW	40-60 m	150-200 LPM	Moderate to High	p	56.7	RW Moderate to Low	Moderate groundwater potential at intermediate depths.	
<p>LEGEND</p> <p>____F____/____I____=____F____</p> <p>These are fault / fracture zones, which generally act as conduits for movement of ground water in hard rocks. Along these zones, the yields are significantly higher and wells are likely to be sustainable for longer duration. However, the inferred fractures need to be confirmed by detailed ground surveys.</p> <p>_____D_____O_____P_____P _____D_____Q_____Q_____P_____P</p> <p>These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.</p> <p>N.B.-The depth range and yield range of wells may vary within the unit because of certain inhomogeneities. Fractures/Lines/marks 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 hydrogeological/geophysical surveys.</p>															

[illegible]