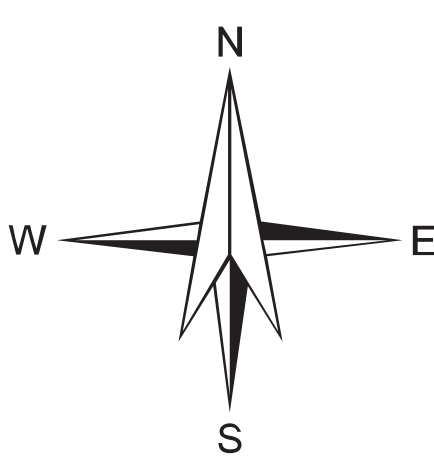
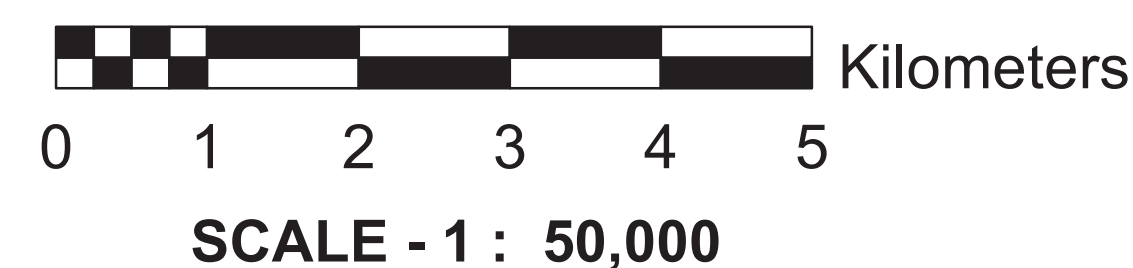


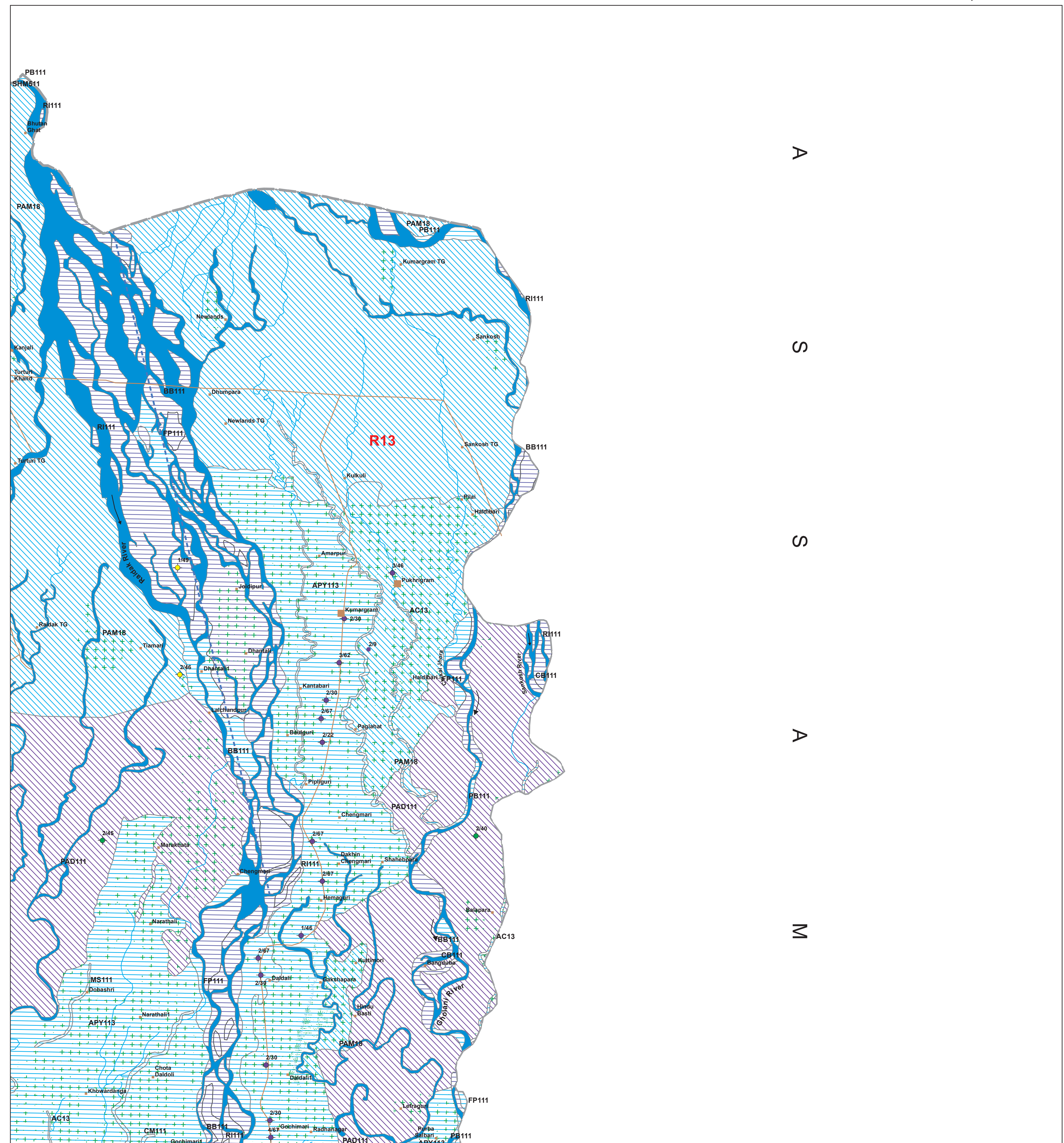
# GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 78F/14

JALPAIGURI & KOCH BIHAR DISTRICTS, WEST BENGAL



## LEGEND

MAP UNIT (HYDROGEOLOGIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGES AND HATCHING INDICATES SEPT/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	RE MARK S (PROBLEMS / LIMITATIONS)		
					AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (IN METERS)	YIELD RANGE OF WELLS (LPM)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)	QUALITY OF WATER (POTABLE / NON-POTABLE)			GROUND WATER BRIGIATED AREA (APPROX. RANGE IN PERCENTAGE)	
CB111	Alluvium (Sand Dominant) (111)	Channel Bar (CB)	No Well Observed	Excellent	LS	TW	5-10 m	400-500 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifer with good recharge from the river base flow.	
BB111		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.	
PB111		Point Bar (PB)	No Well Observed	Very Good	LS	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.	
RI111		River Island (RI)	1/1	1	Very Good	LS	TW	5-10 m	400-500 LPM	High	p	10	Not Required	Highly productive aquifer in shallow depth. Good recharge.
CM111		Cut-off Meander (CM)	No Well Observed	Very Good	LS	RW TW	10-20 m	300-400 LPM	Very High	p	Nil	Not Required	Highly productive shallow aquifers with good recharge.	
MS111		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.	
FP111		Flood Plain (FP)	2/2	2	Very Good	LS	TW	<30 m	250-350 LPM	Very High	P	45	Not Required	Receives good recharge and forms shallow aquifer. Overall quality of the water is potable.
PAD111	Piedmont Alluvium Deep (PAD)	2/1	2	Good	LS	TW	60-80 m	400-500 LPM	Moderate	P	25	Not Required	Good ground water prospect at greater depth as the principal aquifer occurs below PAM.	
APY113	Alluvium (Sand and Silt) (113)	Alluvial Plain Younger (APY)	2/2	11	Good	LS	TW	25-30 m	200-250 LPM	High	P	75	Not Required	Highly productive aquifer at shallow depth with good recharge.
AC13		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.	
PAM18	Alluvium (Gravel Dominant) (18)	Piedmont Alluvium Moderate (PAM)	3/2	3	Good	LS	RW TW	40-60m	300-400 LPM	Moderate	P	35	Not Required	Good ground water prospect at moderate depth along piedmont slope.
SHM511		Sandstone & Conglomerate (511)	Structural Hill Moderately Dissected (SHM)	Essentially run-off zone. Drinking water sources primarily from springs and river/stream water. Limited prospects along intermontane valleys.										

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.

These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.

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 hydrogeological/geophysical surveys.

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