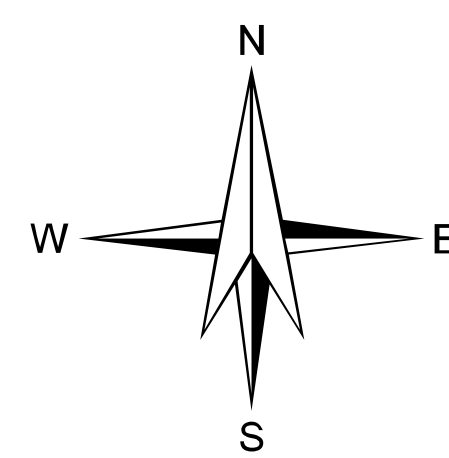
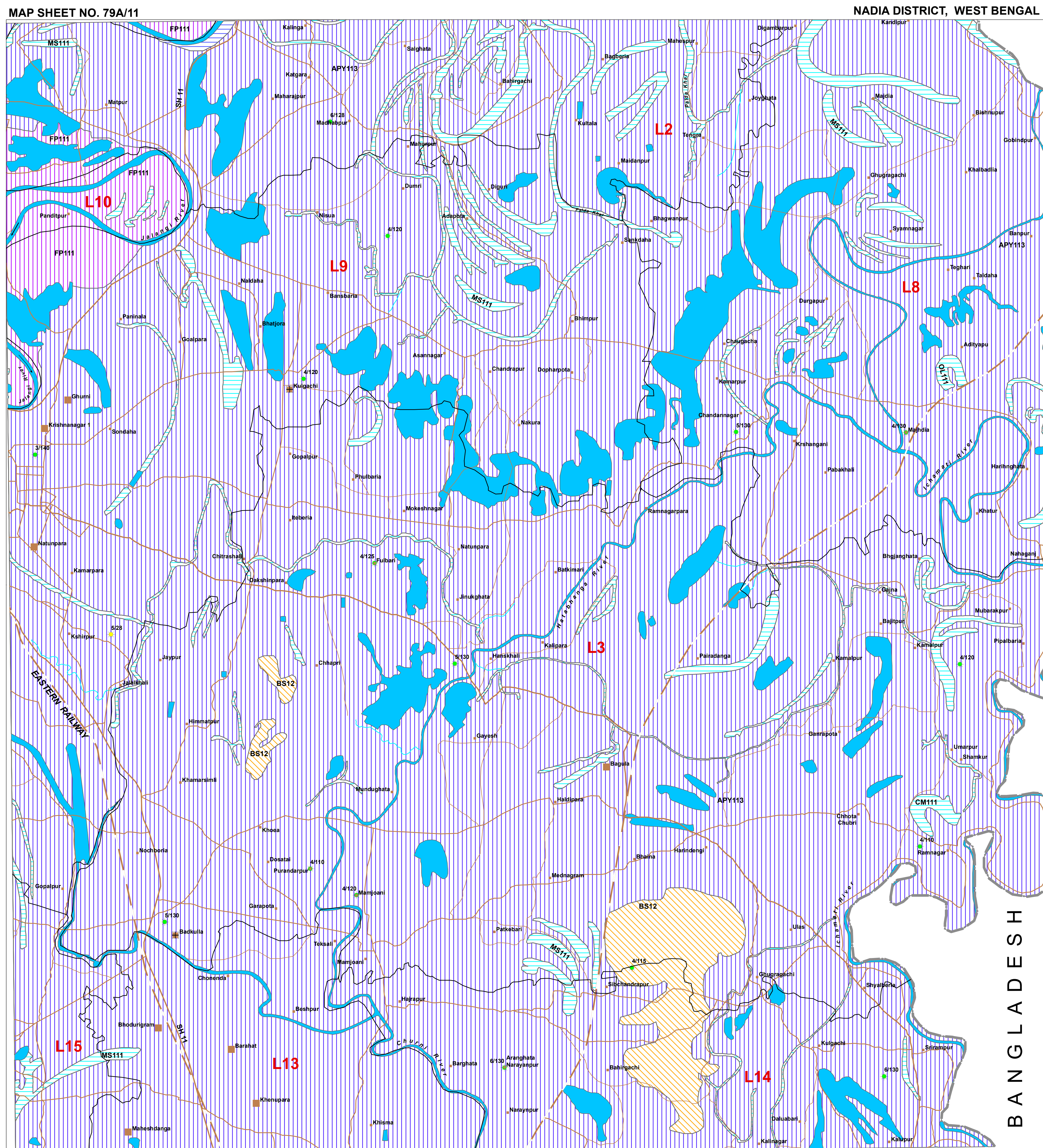


0 1 2 3 4 5 Kilometers

**SCALE - 1 : 50,000**



MAP UNIT (HYDROGEO MORPHIC UNIT)  REPRESENTED IN THE MAP BY 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)	RECHARGE CONDITIONS  BASED ON AVAILABILITY OF WATERS  (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES SUITABLE & PRIORITY  RE MARKS (PROBLEMS / LIMITATIONS)	
						AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (SUGGESTED)	YIELD RANGE OF WELLS (EXPECTED)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)	QUALITY OF WATER  POTABLE (P) NON-POTABLE (NP)  (HATCHED READING IF NOT POTABLE)	GROUND WATER IRRIGATED 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	NII	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
OL111			Ox-bow Lake (OL)	No well observed	Very Good	LS	TW	10-15 m	250-350 LPM	Very High	p	NII	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
CM111			Cut-off Meander (CM)	No well observed	Very Good	LS	RW TW	10-15 m	250-350 LPM	Very High	p	9.04	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
MS111			Meander Scar (MS)	No well observed	Good	LS	RW TW	10-15 m	200-250 LPM	High	P	NII	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
FP111			Flood Plain (FP)	No well observed	Very Good	LS	TW	>150 m	>800 LPM	Very High	NP (As & Fe) [At shallow depth]	2.38	Not Required	Areas with high Arsenic and Iron concentration.Potable water available at depth range above150m.
BS12		Alluvium (Clay Dominant) (12)	Backswamp (BS)	5 / 3 1	Poor	LS	TW	60-70 m	40-50 LPM	Low	P	NII	Not Required	Areas of low groundwater potential. Better potential at greater depths.
AC13		Alluvium (Sand,Silt & Clay) (13)	Abandoned Channel (AC)	No well observed	Very Good	LS	RW TW	10-15 m	250-300 LPM	Very High	P	0.15	Not Required	Areas of very high groundwater potential at shallow depth.Most suitable for extraction of groundwater.
AP14		Alluvium (Sand and Silt) (14)	Alluvial Plain Younger (APY)	6 / 4 16	Good	LS	TW	100-120 m	500-600 LPM	High	NP (As & Fe) [At shallow depth]	67.6	Not Required	Areas with high Arsenic and Iron concentration.Potable water available at depth range above150m.
F --- F / --- / --- 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.														
D --- D / Q --- Q / P --- P D --- D / Q --- Q / P --- P 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.														



© NRSC (ISRO), DEPT. OF SPACE, GOVT. OF INDIA DATA USED : IRS - P6 LISS III FCC dated September 2005-February 2006, GROUND TRUTH & WELL OBSERVATION during March-June, 2012 & Oct 2012-Jan 2013, Published Geological maps & Literatures. *Designed & Developed by Hydrogeology Division, NRSC, ISRO*

[illegible]