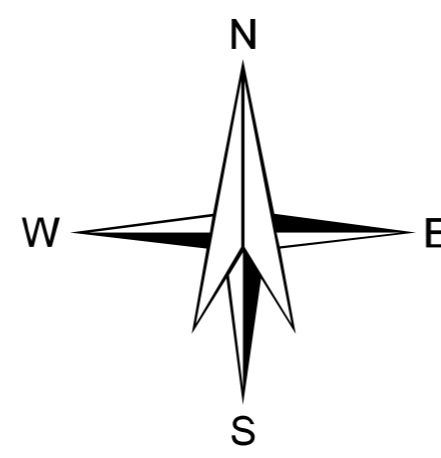
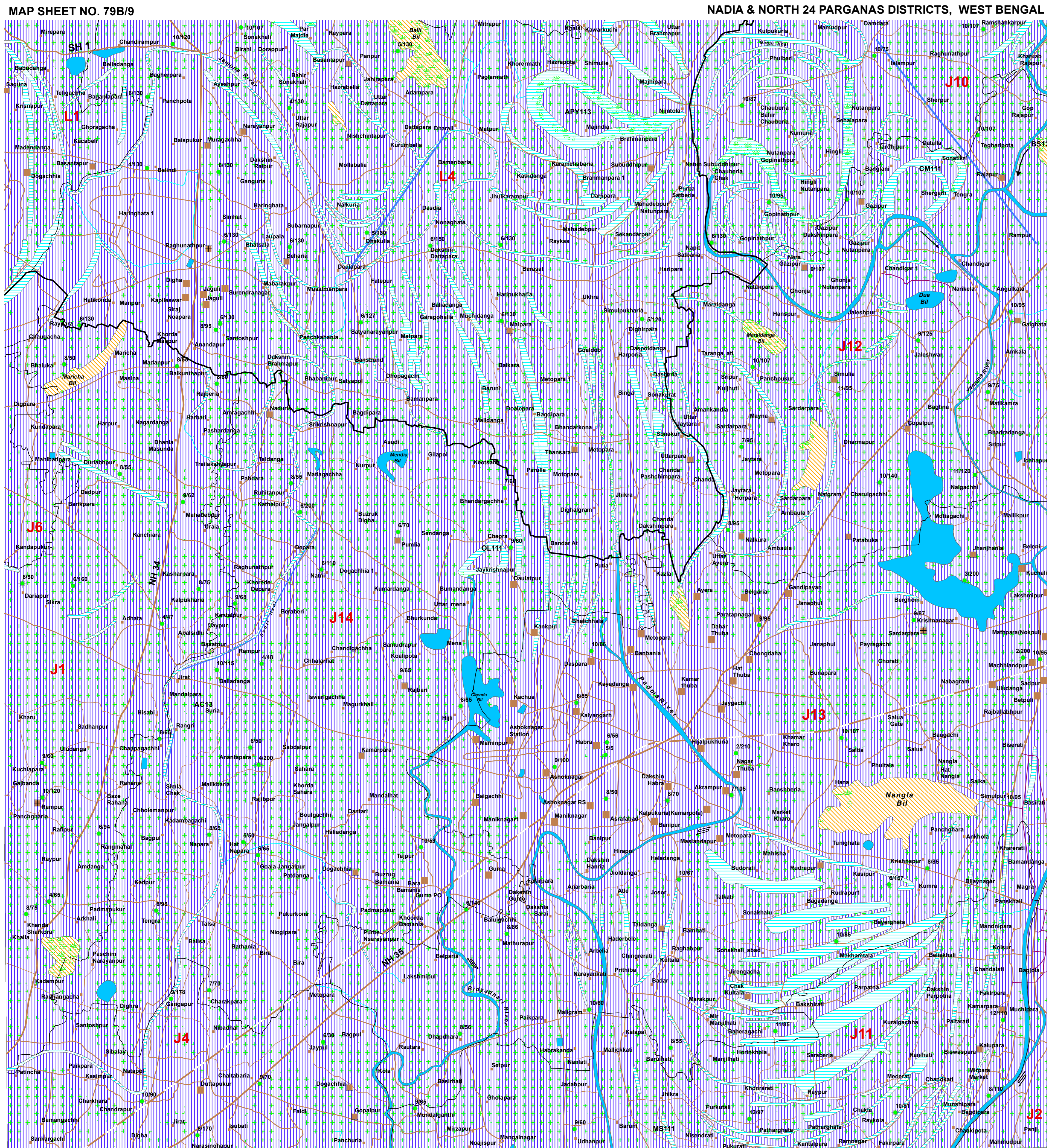


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



MAP UNIT (HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)		GEOLOGICAL SEQUENCE / ROCK TYPE	GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL PRE - POST MONSOON (AVERAGE IN METERS)	RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES SUITABLE & PRIORITY FT = PRECIPITATION TANK CD = CHECK DAM NS = NALA-BASED WELL DT = DESILTING OF TANK RS = RECHARGE PIT SS = SUBSURFACE DYKE RC = RECHARGE CRAFT ST = STORAGE TANK SCM = SOL. CONSERVATION MEASURES	REMARKS (PROBLEMS / LIMITATIONS)	
						AQUIFER MATERIAL LS = LOOSE SEDIMENTS PS = PERMEABLE ROCK FS = FISSURED ROCK RS = RECHARGED ROCK MS = WEATHERED ROCK RM = WEATHERED MATERIAL R = IMPERVIOUS ROCK	TYPE OF WELLS SUITABLE DWW = DUG WELL RW = RING WELL RW = RING WELL TS = TUBE WELL DWW / DUG CUM DOME WELL / DWW = DUG CUM TUBE WELL	DEPTH RANGE OF WELLS (SUGGESTED) MIN - 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 MODERATE LOW	QUALITY OF WATER (POTABLE (P) NON-POTABLE (NP) (INDICATE REASONS IF NON-POTABLE)	GROUND WATER IRRIGATED AREA (APPROX. RANGE IN PERCENTAGE)			
 OL111		Hugli/Bhagirathi Formation(Present Day Deposits)	Alluvium (Sand Dominant) (111)	Ox-bow Lake (OL)	No Well Observed	Very Good	LS	TW	15-25 m	200-300 LPM	Very High	P	Nil	Not Required	Potable water available at shallow depth.
 CM111				Cut-off Meander (CM)	No Well Observed	Very Good	LS	RW TW	10-15 m	200-300 LPM	Very High	P	Nil	Not Required	Potable water available at shallow depth.
 MS111				Meander Scar (MS)	13/8 1	Good	LS	RW TW	10-15 m	200-250 LPM	High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
 BS12		Panskura/Arambagh/Chinsura/Kawa Formation (Early to Late Holocene)	Alluvium (Clay Dominant) (12)	Backswamp (BS)	No Well Observed	Poor	LS	TW	60-70 m	40-50 LPM	Low	P	Nil	Not Required	Areas of low groundwater potential. Better potential at greater depths.
 APY113				Alluvial Plain Younger (A.P.Y)	9/6 105	Good	LS	TW	>150 m	400-500 LPM	High	NP (As&Fe) (At shallow depth)	57	Not Required	Areas with high Arsenic and Iron concentration.Potable water available at depth range above 150 m.
 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	Nil	Not Required
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.															

[illegible]