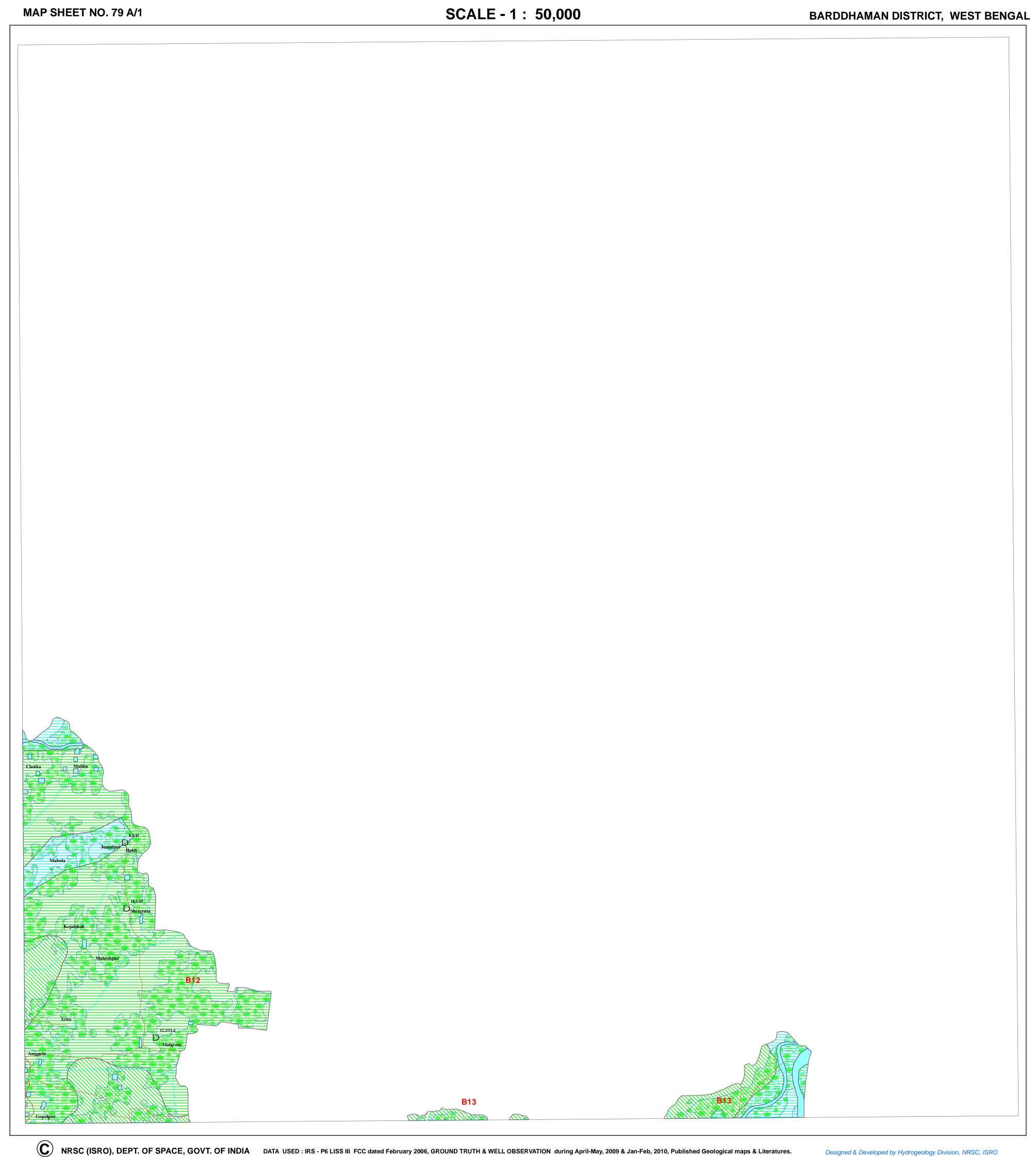
GROUND WATER PROSPECTS MAP

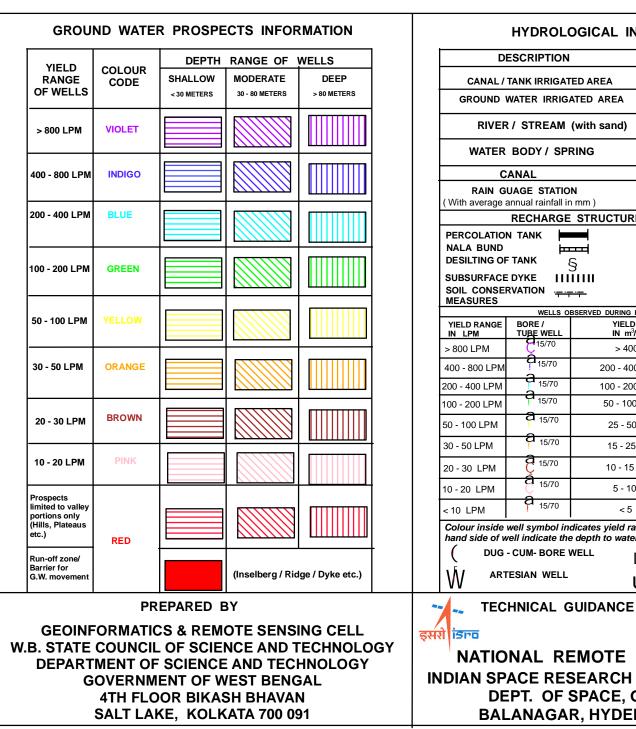
(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)





LEGEND

MAP UNIT	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)		GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	WATER LEVEL PRE/ POST- MONSOON (AVERAGE IN METERS)	RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES	
(HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)						AQUIFER MATERIAL LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL IR = IMPERIVIOUS ROCK	TYPE OF WELLS SUITABLE DW = DUG WELL RW = RING WELL BW = BORE WELL TW = TUBE WELL DBW / = DUG CUM-BORE WELL / DTW DUG CUM-TUBE WELL	DEPTH RANGE OF WELLS (SUGGESTED) MIN - MAX (IN METERS)	YIELD RANGE OF WELLS (EXPECTED) (in LPM or m³/day)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY) VERY HIGH HIGH MODERATE LOW	QUALITY OF WATER POTABLE (P) NON - POTABLE (NP) (INDICATE REASONS IF NON POTABLE)	GROUND WATER IRRIGATED AREA (APPROX : RANGE IN PERCENTAGE)	SUITABLE & PRIORITY PT = PERCOLATION TANK CD = CHECK DAM NB = NALA BUND RW = RECHARGE WELL DT = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES	REMARKS (PROBLEMS/LIMITATIONS)
APY11	Panskura fm = Daintikri fm - Arambagh fm (Upper Holocene) (Present Day)	Alluvium (Sand Dominant) (11)	Alluvial Plain Younger (APY)	No Wells observed	Very Good	LS	DW TW	10 - 12 20 - 30	150 - 200 m³/day 250 - 300 LPM	Very High	Р	Nil	Not Required	Aquifer is formed of sandy part of alluvium Recharge structures are not required as good recharge condition prevails
NL13			Natural Leeve (NL)	8.3 HP - 1	Very Good to Good	LS	DW TW	10 - 15 25 - 30	50 - 75m ³ /day 175 - 200 LPM	High	P	-	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structures are not required as good recharge condition prevails
AOM 13	Sijua formation = Rampurhat formation (Lower Holocene)	Alluvium (Sand with silt and clay) (13)	Alluvial Plain Older -Moderate (AOM)	10.5 - 12.2 ———————————————————————————————————	Good	LS	DW TW	10 - 15 25 - 30	50 - 75 m³/day 150 - 200 LPM	High	Р	-	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structures are not required as good recharge condition prevails
AOD13			Alluvial Plain Older -Deep (AOD)	No Wells observed	Good	LS	DW TW	15 - 20 30 - 50	50 - 75 m ³ /day 175 - 200 LPM	High	P	-	Not Required	Aquifer is formed of sandy part of alluvium Recharge structures are not required as good recharge condition prevails
FF// DD_/QQ				·				ly higher and wells a	re likely to be sustaina	ble for longer duration	on. However, the inferre	d fractures need to be	confirmed by detailed ground surveys	<u></u>
DD /QQ DD /QQ /						for ground water movements.		/ inferred from the	satellite image are	indicated on the m	ap. There could be s	ome obscured fractu	res which also influence the grou	and water prospects.



Designed & Developed by Hydrogeology Division, NRSC, ISRO

