GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)

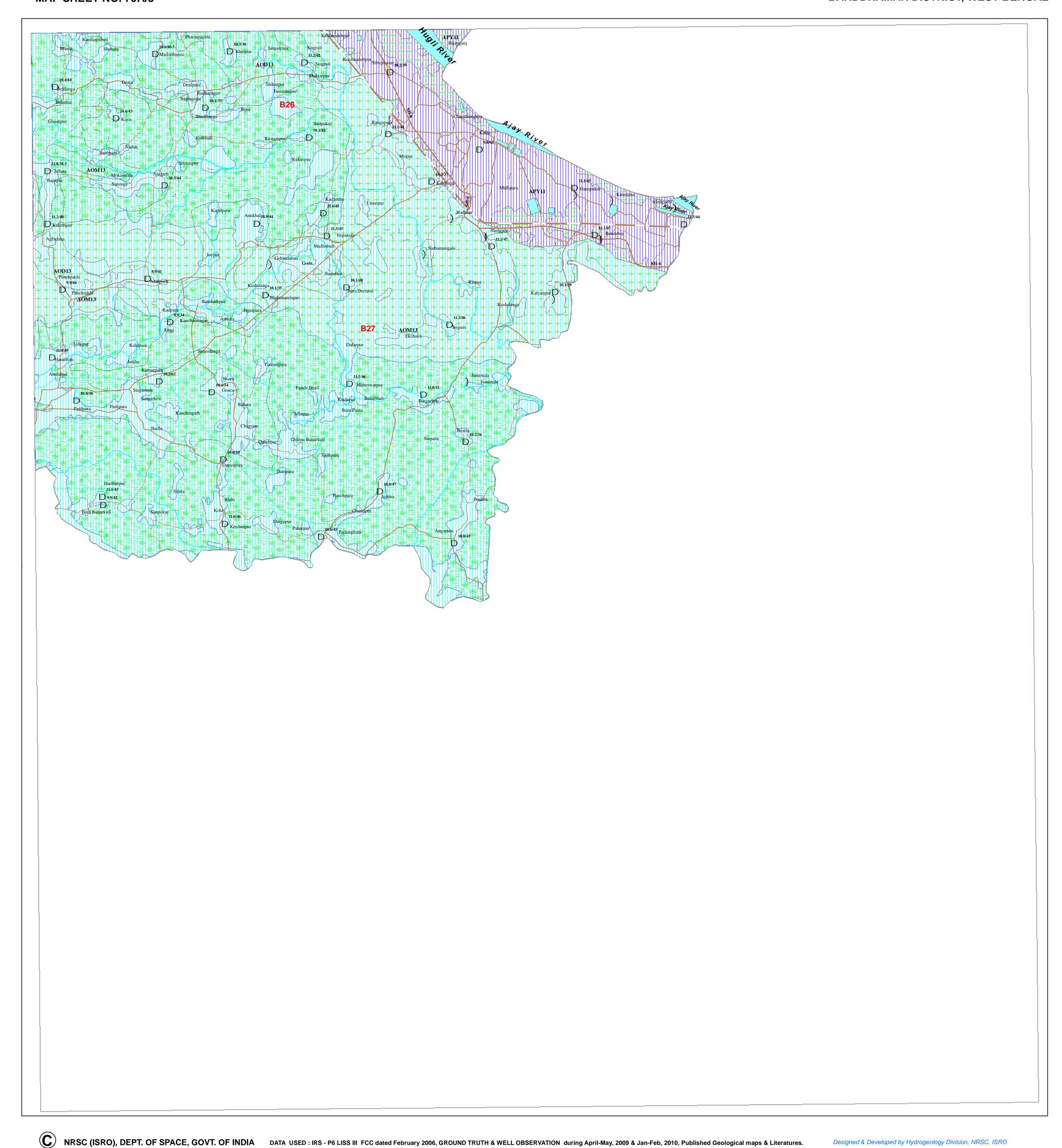


0 1 2 3 4 5

MAP SHEET NO. 79A/8

SCALE - 1: 50,000

BARDDHAMAN DISTRICT, WEST BENGAL



LEGEND

MAP UNIT	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)	GEOMORPHIC UNIT / LANDFORM	WATER LEVEL C PRE/ POST- MONSOON (AVERAGE IN METERS)	RECHARGE CONDITIONS	GROUND WATER PROSPECTS							RECHARGE STRUCTURES	REMARKS
(HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)		(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)		BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	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	(PROBLEMS / LIMITATIONS)
APY11	Panskura formation = Daintikri formation - Arambagh formation (Upper Holocene) (Present Day) (11) (11) (11)	Alluvial Plain Younger (APY)	9.8 - 11.5 PW - 1 HP - 4	Excellent	LS	DW TW	10 - 12 100 - 120	100 - 125 m³/day 450 - 500 LPM	Very High	NP (As)	20%	Not Required	At depth range of 20m to 80m, ground wat is non-potable due to Arsenic contaminati primarily. At depth range of above 80m, Arsenic free ground water may be available.
AOM13	Rampurhat formation Holocene)	Alluvial Plain Older -Moderate (AOM)	9.9 - 11.5 HP - 20	Good	LS	DW TW	10 - 15 100 - 120	50 - 75 m³/day 250 - 300 LPM	High	NP (As)	40%	Not Required	At depth range of 20m to 80m, ground wat is non-potable due to Arsenic contaminati primarily. At depth range of above 80m, Arsenic free ground water may be availab
AOD13	Alluvium (Sand with Silt and 0 (13)	Alluvial Plain Older -Deep (AOD)	8.9 - 11.8 HP-17	Good	LS	DW	15 - 20 120 - 140	50 - 75 m³/day 300 - 400 LPM	High	NP (As)	10%	Not Required	At depth range of 20m to 80m, ground wat is non-potable due to Arsenic contamination primarily. At depth range of above 80m, Arsenic free ground water may be availab
F// D /QQ D /QQ	These a	re fault / fracture zones, which go					y higher and wells ar	re likely to be sustainal	ble for longer duratio	n. However, the inferre	ed fractures need to be o	confirmed by detailed ground survey	s.

