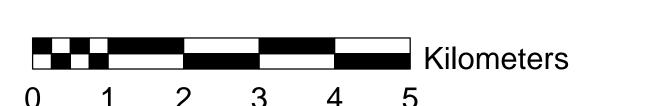
## GROUND WATER PROSPECTS MAP

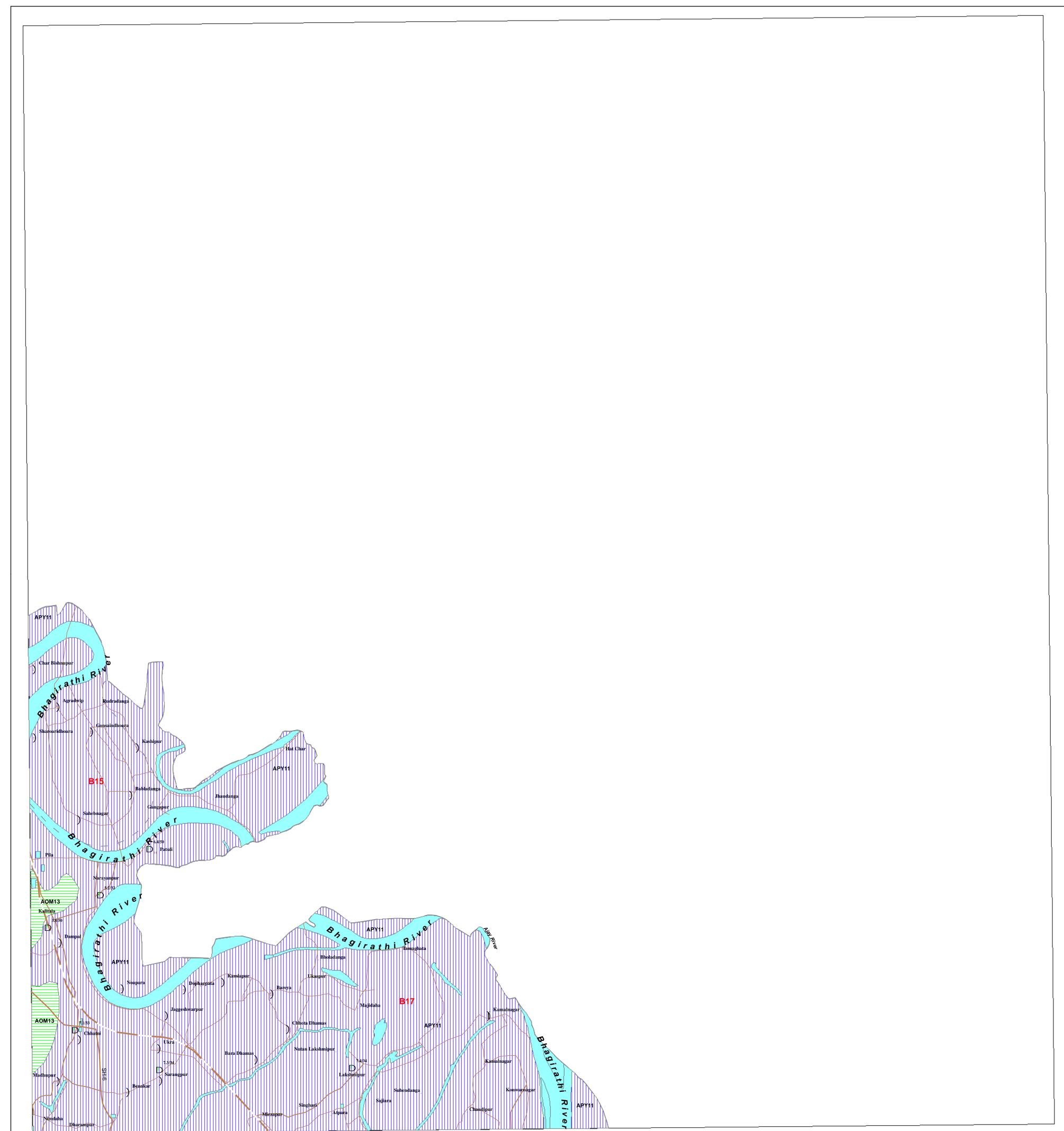
(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 79A/6

SCALE - 1: 50,000

BARDDHAMAN DISTRICT, WEST BENGAL



NRSC (ISRO), DEPT. OF SPACE, GOVT. OF INDIA DATA USED: IRS - P6 LISS III FCC dated February 2006, GROUND TRUTH & WELL OBSERVATION during April-May, 2009 & Jan-Feb, 2010, Published Geological maps & Literatures.

Designed & Developed by Hydrogeology Division, NRSC, ISRO

## L E G E N D

## 15 Part   Par		GEOLOGICAL SEQUENCE / ROCK TYPE  GEOMORPHIC UNIT / LANDFORM  DEPTH TO WATER LEVEL  RECHARGE CONDITIONS  RECHARGE STRUCTURES SUITABLE &  RECHARGE STRUCTURES SUITABLE &												
Part	UNIT )  REPRESENTED IN  THE MAP WITH ALPHANUMERIC CODE  ( COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE	THE MAP WITH	THE MAP WITH	(AVERAGE IN METERS)  NO. OF WELLS	AVAILABILITY OF WATER	LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL	SUITABLE  DW = DUG WELL RW = RING WELL BW = BORE WELL TW = TUBE WELL DBW /= DUG CUM-BORE WELL /	OF WELLS (SUGGESTED) MIN - MAX	(EXPECTED)	& SUCCESS RATE OF WELLS (PROBABILITY)  VERY HIGH HIGH MODERATE	WATER  POTABLE (P)  NON - POTABLE (NP)  (INDICATE REASONS IF	WATER IRRIGATED AREA (APPROX.RANGE	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	
AOM13    Sand with Sitt and Clay)   Sand with Si		Holocene) (Sand Dominant) (11)			Excellent	LS				Very High	NP (As)	Negligible	Not Required	At depth range of 20m to 80m, ground w is non-potable due to Arsenic contamina primarily. At depth range of above 80m, Arsenic free ground water may be available.
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.	AOM13				Good	LS				High	P	40%	Not Required	Aquifer is formed of sandy part of alluve Recharge structures are not required a good recharge condition prevails
DD /QQ / PP  Those are dykes, quartz roofs and pogmatite voins, which generally act as barriers for ground water movement	FF/ / — –	– – These are faul	t / fracture zones, which ge	nerally act as conduits for me	ovement of ground water in	hard rocks. Along these zone	s, the yields are significantly	y higher and wells are	e likely to be sustainab	ble for longer duration	on. However, the inferre	d fractures need to be	confirmed by detailed ground survey	s.
D——-D/Q——-Q / PP These are dykes, quartz reers and pegmatite verifis, which generally act as barriers for ground water movement.	DD /QQ / PP D /QQ / PP These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.													

