GROUND WATER PROSPECTS MAP (PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS) SCALE - 1: 50,000 BARDDHAMAN DISTRICT, WEST BENGAL MAP SHEET NO. 79A/2 Hàqtsiuri Nakada Bhatana Hiarispur Nakada Nohanta Malikpu 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

LEGEND

ROCK TYPE REPRESENTED IN THE MAP WITH NUMERIC CODE) Alluvium (Sand Dominant) (11)	(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	PRE / POST- MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED	BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED 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 = DESILITING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES	REMARKS (PROBLEMS/LIMITATIONS)
(Sand Dominant)												
	(APY)	4.3 - 13.8 PW - 2 HP - 15	Very Good	LS	DW TW	10 - 12 100 - 120	100 - 125m ³ /day 450 - 500 LPM	Very High	NP	Negligible	Not Required	At depth range of 20m to 80m groundwa is non-potable due to Arsenic contamina primarily. At depth range of above 80m, Arsenic free groundwater may be availal
Alluvium Sand with silt and clay) (13)		No Wells observed	Very Good to Good	LS	DW TW	10 - 15 25 - 30	50 - 75m ³ /day 175 - 200 LPM	High	P	Negligible	Not Required	Aquifer is formed of sandy part of alluvi Recharge structures are not required as good recharge condition prevails
Alluvium Sand with silt and clay) (13)	Alluvial Plain Older -Moderate (AOM)	4.6 - 15.1 PW - 2 HP - 27	Good	LS	DW TW	10 - 15 100 - 120	50 - 75 m ³ /day 250 - 300 LPM	High	NP	40%	Not Required	At depth range of 20m to 80m groundwa is non-potable due to Arsenic contamina primarily. At depth range of above 80m, Arsenic free groundwater may be availal
Alluvium Sand with silt and clay) (13)	Alluvial Plain Older -Deep (AOD)	4.1 - 14.2 PW - 14 HP - 40	Good	LS	DW TW	15 - 20 120 - 140	50 - 75 m/day 300 - 400 LPM	High	NP	20%	Not Required	At depth range of 20m to 80m groundwa is non-potable due to Arsenic contamina primarily. At depth range of above 80m, Arsenic free groundwater may be availa
	Alluvium (13) Alluvium (13) Alluvium (13)	Alluvium and with silt and clay) (NL) Alluvium (Alluvial Plain Older -Moderate (AOM) Alluvium (AOD)	Alluvium (13) Alluvial Plain Older -Moderate (AOM) Alluvial Plain Older -Moderate (AOM) Alluvial Plain Older -Deep (AOD) Alluvial Plain Older -Deep (AOD)	Alluvium (13) Alluvium (13) Alluvian Plain Older - Moderate (AOM) Alluvium	Alluvium (13) Alluvium (A) Alluvial Plain Older (AOM) Alluvial Plain Older (AOM)	Alluvium and with silt and clay) Alluvial Plain Older - Moderate (AOM) Alluvium and with silt and clay) Alluvium and with silt and clay)	Alluvium and with silt and clay) (13) Alluvial Plain Older (AOIM) Alluvial Plain Older - Deep and with silt and clay) (13) Alluvium and with silt and clay) (13) Alluvial Plain Older - Deep and with silt and clay) Alluvial Plain Older - Deep and with silt and clay) Alluvial Plain Older - Deep and with silt and clay) Alluvial Plain Older - Deep and with silt and clay)	Alluvium and with silt and clay) (13) Alluvium (13) Alluvial Plain Older (13) Alluvium (14) Alluvium (15) Alluvium (16) Alluvium (16) Alluvium (17) Alluvium (18) Alluvium (18) Alluvium (19) Alluvium (19)	Alluvium and with sit and clay) Alluvial Plain Older - Moderate (AOM) Alluvium Alluvium and with sit and clay) Alluvium Alluvium Alluvium and with sit and clay) Alluvium Plain Older - Moderate (AOM) Alluvial Plain Older - Moderate (AOM) Alluvium - M	Alluvium and with sit and clay (13) Alluvium (13) Alluvius Plain Older	Alluvium and with sit and clay) Alluvium (13) Alluvium (Alluvium and with sit and clay) Alluvium (Alluvium and with sit and clay)	Alluvium (13) Alluvium Alluvium Alluvium Alluvium Alluvium Alluvium And vith all and clays (ACM) Alluvium And vith all and clays (ACM) Alluvium All

