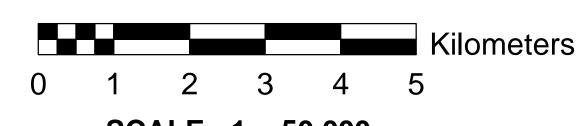
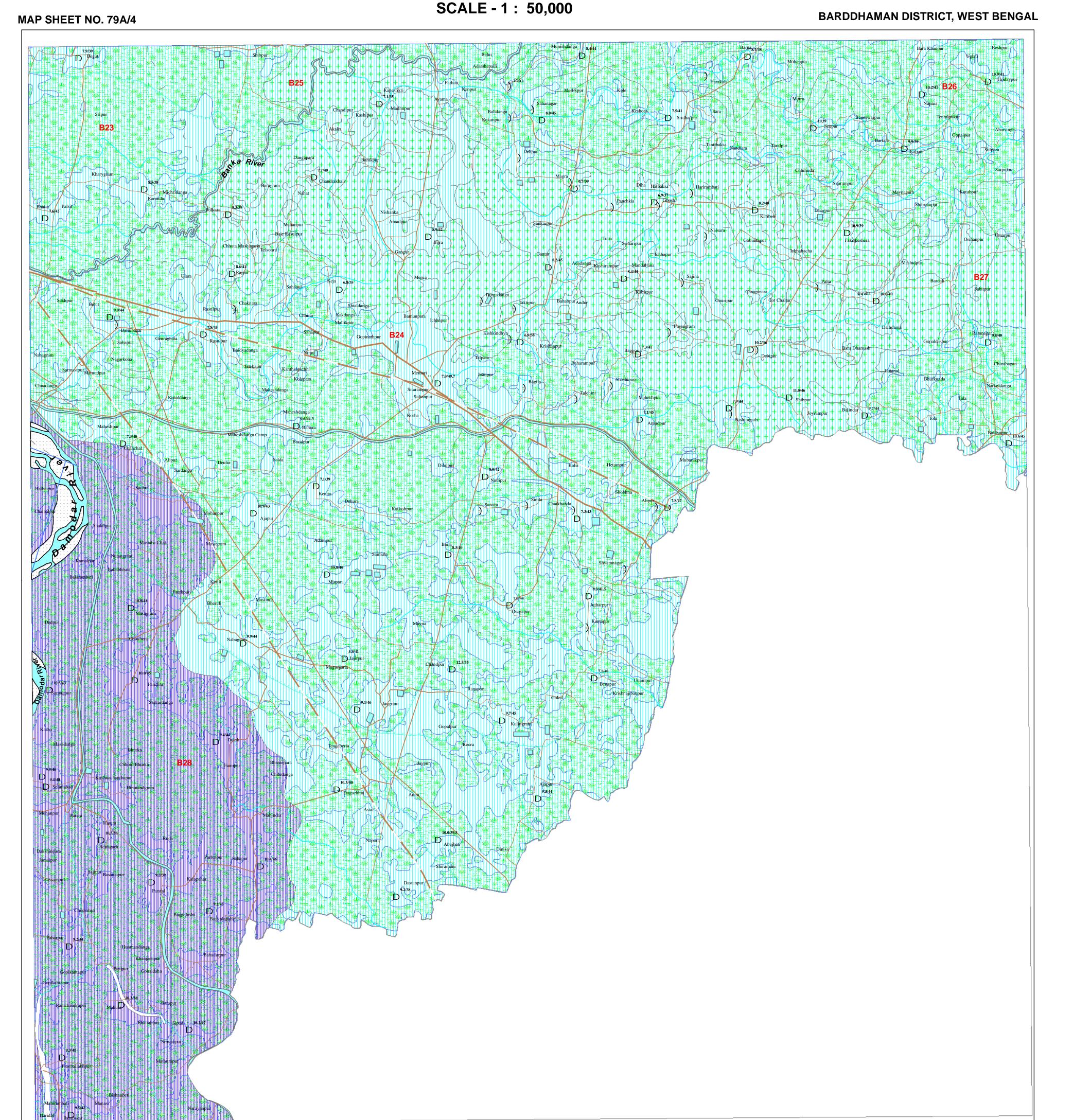
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)





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

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 DW TW	(SUGGESTED) MIN - MAX (IN METERS)	YIELD RANGE OF WELLS (EXPECTED) (in LPM or m³/day) 150 - 200 m/day 450 - 500 LPM	VERY HIGH HIGH MODERATE LOW Very High	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 Not Required	At depth range of 20m to 80m groundwar is non-potable due to Arsenic contaminat primarily. At depth range of above 80m, Arsenic free groundwater may be available to the second s
DW	100 - 120		Very High	NP	Nil	Not Required	is non-potable due to Arsenic contamina primarily. At depth range of above 80m,
	10 - 15						
TW	100 - 120	50 - 75 m/day 250 - 300 LPM	High	NP	72%	Not Required	At depth range of 20m to 80m groundward is non-potable due to Arsenic contaminate primarily. At depth range of above 80m, Arsenic free groundwater may be availant
DW TW	15 - 20 120 - 140	50 - 75 m ³ /day 300 - 400 LPM	High	NP	50%	Not Required	At depth range of 20m to 80m groundwis non-potable due to Arsenic contamina primarily. At depth range of above 80m, Arsenic free groundwater may be available.
s	TW	TW 120 - 140	TW 120 - 140 300 - 400 LPM	TW 120 - 140 300 - 400 LPM	TW 120 - 140 300 - 400 LPM High NP the yields are significantly higher and wells are likely to be sustainable for longer duration. However, the inferrence of the significant state of the signific	TW 120 - 140 300 - 400 LPM High NP 50% the yields are significantly higher and wells are likely to be sustainable for longer duration. However, the inferred fractures need to be	TW 120 - 140 300 - 400 LPM NP 50% Not Required 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 survey

LOCATION INFORMATION GROUND WATER IRRIGATED AREA STEEP (45 - 80) WATER BODY / SPRING RAIN GUAGE STATION 200 - 400 LPM SYNCLINE / SYNFORM DESILTING OF TANK 100 - 200 LPM **ESCARPMENT** LITHOLOGY / GEOMORPHIC UNIT BOUNDARY 50 - 100 LPM **MAPSHEET INDEX** 100 - 200 LPM 15/7 50 - 100 m³/ day FRACTURE / LINEAMENT 20 - 30 LPM (8/15 50 - 100 LPM FRACTURE / LINEAMENT 10 - 15 m³ / day 20 - 30 LPM OTHER INFORMATION 73N/13 79B/1 73B/5 Imited to valley portions only (Hills, Plateaus etc.)

Run-off zone/ Barrier for G.W. movement Rainfall: 1348mm $< 5 \text{ m}^3 / \text{day}$ (Confirmed / Inferred) Colour inside well symbol indicates yield range. The figures on the top right hand side of well indicate the depth to water level and depth of well in meters DUG - CUM- BORE WELL (Source IMD) (Inselberg / Ridge / Dyke etc.) OBSERVATION WELL OF G.W DEPT. / C.G.W.B. Lithologic contacts are inferred at places & Geomorphic boundaries TECHNICAL GUIDANCE & QUALITY CHECK SPONSORED BY PREPARED BY PARTICIPATING ORGANIZATIONS METHODOLOGY & PROJECT EXECUTION GEOINFORMATICS & REMOTE SENSING CELL Survey of India W.B. STATE COUNCIL OF SCIENCE AND TECHNOLOGY RAJIV GANDHI NATIONAL DRINKING WATER MISSION Geological Survey of India NATIONAL REMOTE SENSING CENTRE NATIONAL REMOTE SENSING CENTRE DEPARTMENT OF DRINKING WATER SUPPLY (DDWS) DEPARTMENT OF SCIENCE AND TECHNOLOGY PHED, Govt. of West Bengal INDIAN SPACE RESEARCH ORGANISATION (ISRO) INDIAN SPACE RESEARCH ORGANISATION (ISRO) **GOVERNMENT OF WEST BENGAL** MINISTRY OF RURAL DEVELOPMENT State Water Investigation Directorate, GoWB DEPT. OF SPACE, GOVT. OF INDIA DEPT. OF SPACE, GOVT. OF INDIA 4TH FLOOR BIKASH BHAVAN GOVERNMENT OF INDIA SALT LAKE, KOLKATA 700 091 BALANAGAR, HYDERABAD - 500 625 P.S.Maps (Land Record), Govt of West Bengal BALANAGAR, HYDERABAD - 500 625 **NEW DELHI**