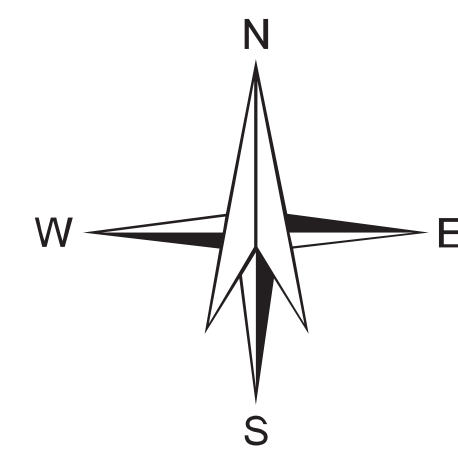
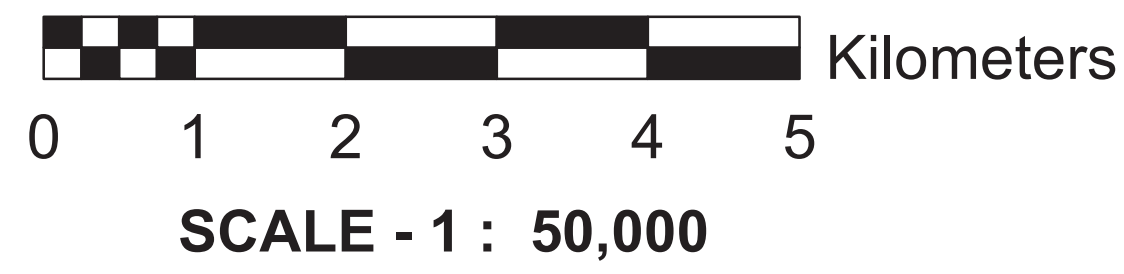


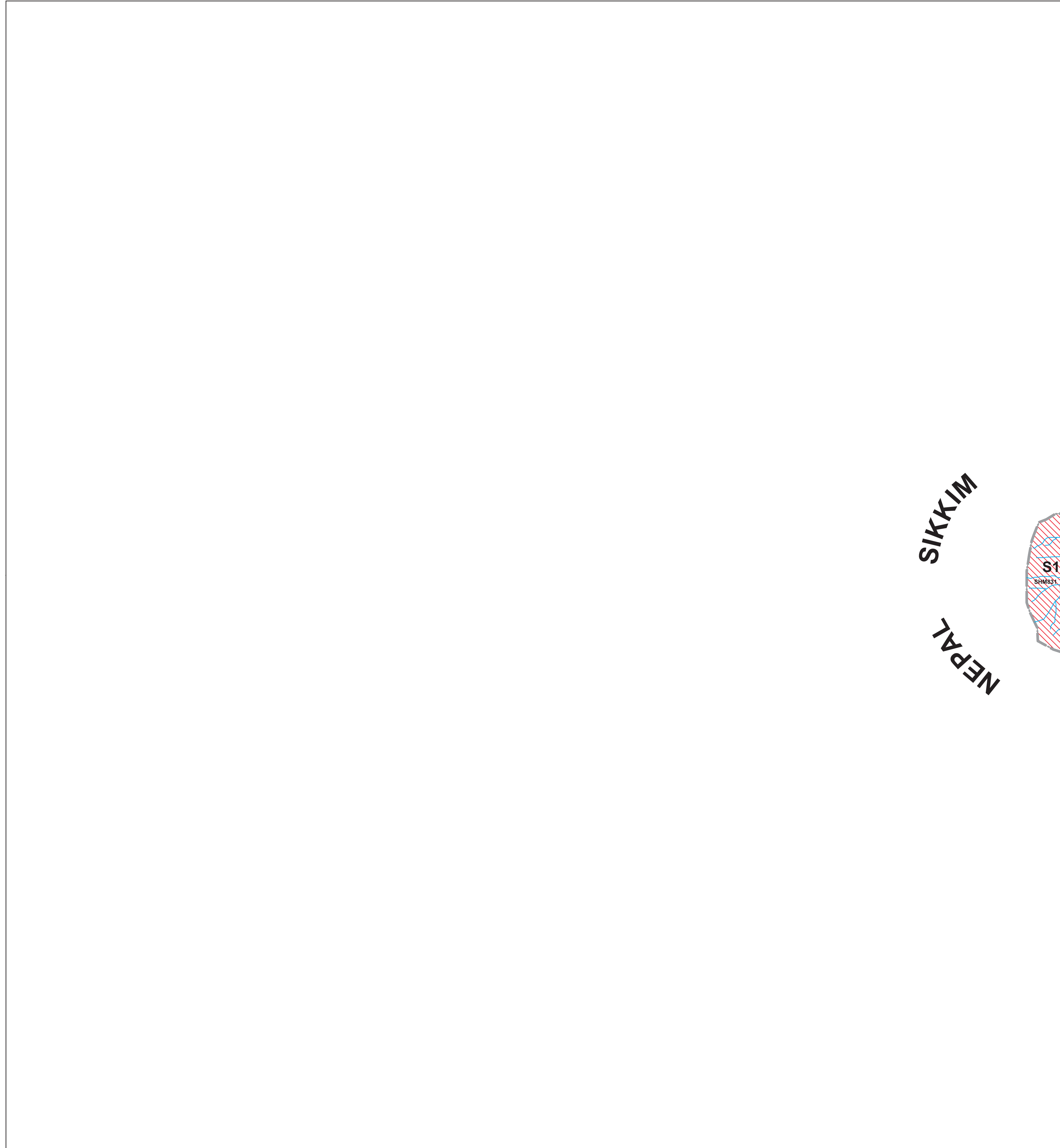
DRINKING WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 72M/16

DARJEELING DISTRICT, WEST BENGAL



LEGEND

MAP UNIT (HYDROGEOLOGIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND MATCHING INDICATE DEPTH RANGE)	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)	GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	DEPTH TO WATER LEVEL PRE / POST-MONSOON (AVERAGE IN METERS) NO. OF WELLS OBSERVED	RECHARGE CONDITIONS BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS						RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS (PROBLEMS / LIMITATIONS)
					AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (SUGGESTED) (IN METERS)	YIELD RANGE OF WELLS (EMPHATIC) (IN LPM OR m ³ /day)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)	QUALITY OF WATER (NON-POTABLE (NP)) (UNDESIRABLE IONS PER CENT)		
SHMB51	Granitoid Gneiss/Granitoid Complex (831)	Structural Hill Moderately Dissected (SHM)			LI - LOOSE SEDIMENTS PI - PERMEABLE ROCK FR - FRACTURED ROCK RW - RECHARGE WELL WE - WEATHERED MATERIAL IR - IMPERVIOUS ROCK	RW - RIGID WELL FW - FLEXIBLE WELL CW - CUMBER WELLS CCW - CUMBER WELL CCW - CUMBER WELL	MIN - MAX (IN METERS)	(IN LPM OR m ³ /day)	VERY HIGH HIGH MODERATE LOW	UNDESIRABLE IONS PER CENT NON-POTABLE (NP)	PT - PERCOLATION TANK CD - CHECK DAM RW - RECHARGE WELL ST - STORAGE TANK SC - SOIL CONSERVATION MEASURES ST - STORAGE TANK SC - SOIL CONSERVATION MEASURES	
Hilly Area, no habitations, hence no recommendation.												
F --- F / --- / --- 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.												
D --- D / Q --- Q / P --- P D --- D / Q --- Q / P --- P These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.												
N.B.-The depth range and yield range of wells may vary within the unit because of certain inhomogeneities. Fractures/lineaments which are clearly observed / inferred from the satellite image are indicated on the map. There could be some obscured fractures which also influence the ground water prospects. Locations of the recharge structures shown in the map are tentative. This map is useful for narrowing down the target zones and exact location on the ground for wells and recharge structures should be identified based on follow-up ground hydrogeological/geophysical surveys.												

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