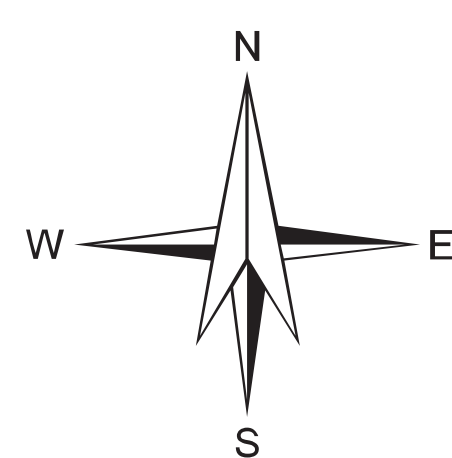
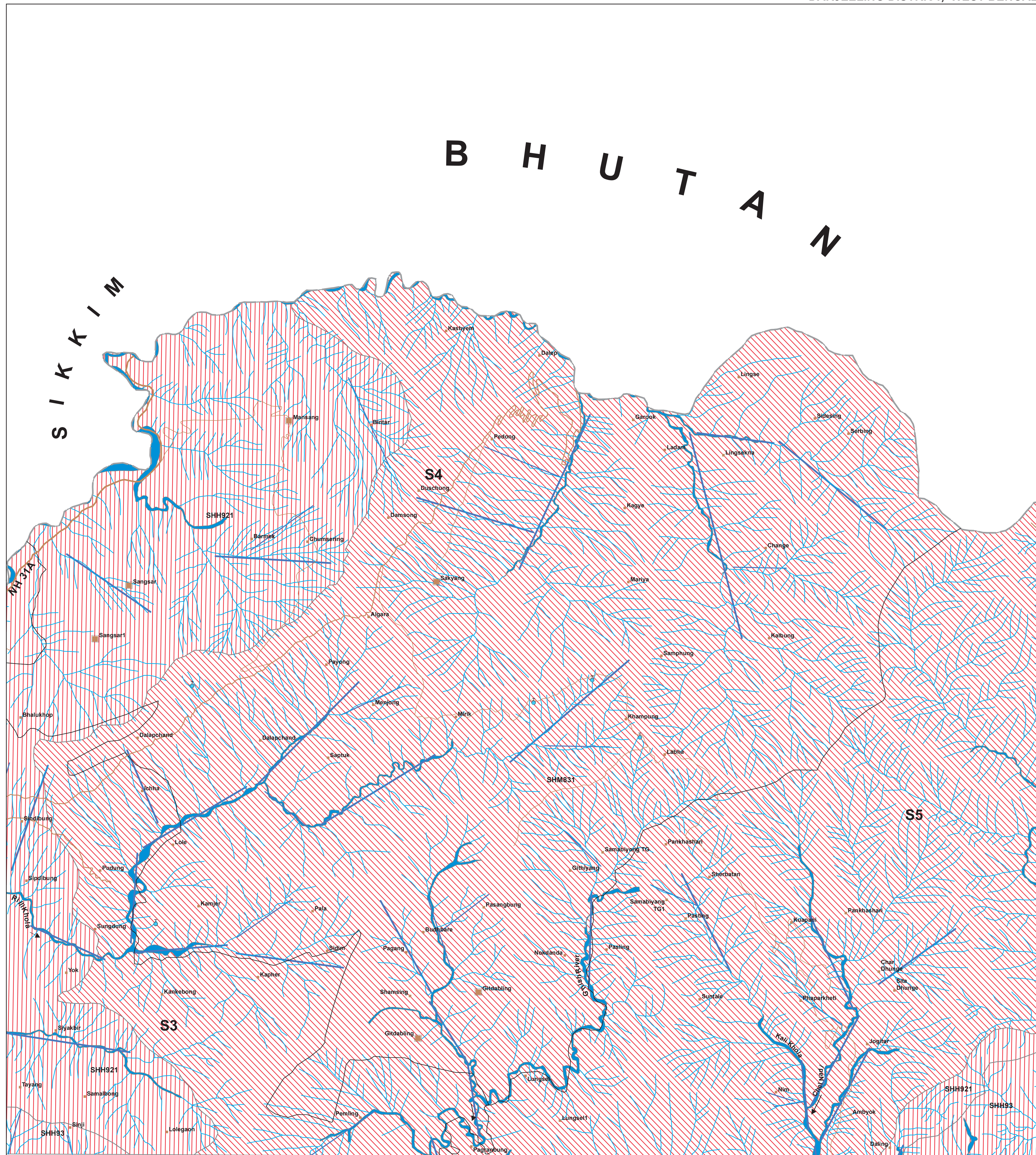


(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 78A/12

DARJEELING DISTRICT. WEST BENGAL



## LEGEND

MAP UNIT (HYDROGEOLOGIC UNIT REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE)  (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)		GEOLOGICAL SEQUENCE / ROCK TYPE	GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL  PRE / POST MONSOON (AVERAGE IN METERS)	RECHARGE CONDITIONS  BASED ON AVAILABILITY OF WATER  (RAINFALL & OTHER SOURCES)	GROUND WATER PROSPECTS							RECHARGE STRUCTURES SUITABLE & PRIORITY	RE MARKS (PROBLEMS / LIMITATIONS)
				NO. OF WELLS OBSERVED		AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (SUGGESTED)	YIELD RANGE OF WELLS (EXPECTED)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)	QUALITY OF WATER (POTABLE (P) NON- POTABLE (NP))	GROUND WATERS IRRIGATED AREA (APPROX. RANGE IN PERCENTAGE)	PT + HORIZONTAL TANK CO = CHECK DAM AD = SAND BONE PW = RECHARGE WELL OT = OBTAINING OF TANK NP = RECHARGE OF NO = SUBSURFACE DYKE ND = RECHARGE DAMP D = FORTUNE TANK SCM = SOL CONSERVATION MEASURES	
		Daling Group (Reyang Formation) (Proterozoic)	Phyllite (93)	Structural Hill Highly Dissected (SHH)	<p>Essentially run-off zone. Drinking water sources primarily from springs and river/stream water. Limited prospects within Intermontane Valleys.</p>									
		Daling Group (Gourubathan Formation) (Proterozoic)	Schist (921)	Structural Hill Highly Dissected (SHH)										
		Central Crystalline Gneissic Complex (Proterozoic)	Granitoid Gneiss/ Gneissic Granitoid/ Granitoid Complex (831)	Structural Hill Moderately Dissected (SHM)										
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 inhomogeneties. 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.														