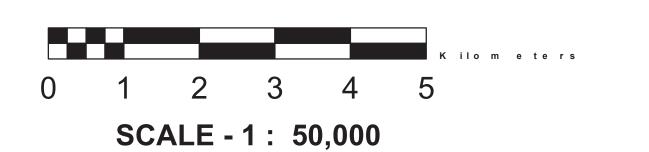
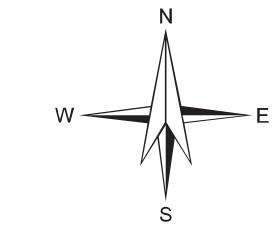
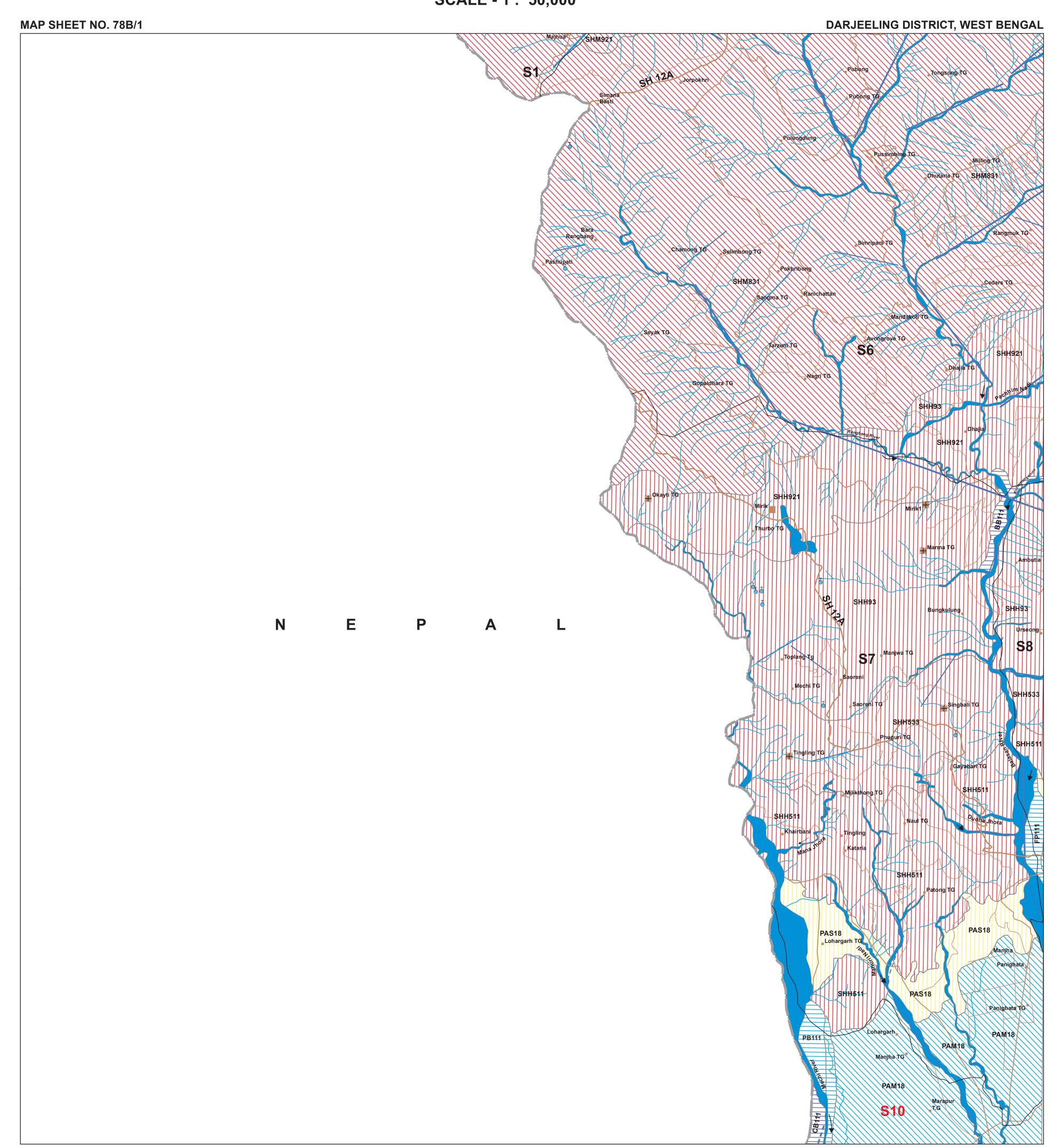
GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)









LEGEND

	GEOLOGICAL SEQUENCE / ROCK TYPE	GEOMORPHIC UNIT / LANDFORM	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 \$							REMARKS
(HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)	(REPRESENTED IN THE MAP WITH NUMERIC CODE)	(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)			AQUIFER MATERIAL LS = LOOSE SEDIMENTS PR = PERMEABLE ROCK FIR = FISSURED ROCK FR = FRACTURED ROCK WR /= WEATHERED ROCK / WM WEATHERED MATERIAL IR = IMPERIVIOUS 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 m ³ /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 = DESILTING OF TANK RP = RECHARGE PIT SD = SUBSURFACE DYKE RS = RECHARGE SHAFT ST = STORAGE TANK SCM = SOIL CONSERVATION MEASURES	(PROBLEMS / LIMITATIONS)
CB111	Deposits	Channel Bar (CB)	No Well Observed	Excellent	LS	TW	5- 10 m	400-500 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifer with good recharge from the river base flow.
BB111	Day Day mnivully	Braid Bar (BB)	No Well Observed	Excellent	LS	TW	5- 10 m	400-500 LPM	Very High	P	Nil	Not Required	Highly productive shallow aquifer with good recharge from the river base flow.
	Shaugaon Formation/R (Present (111))	Point Bar (PB)	No Well Observed	Very Good	LS	RW TW	5-10 m	300-400 LPM	Very High	P	Nil	Not Required	Groundwater prospects very high with high recharge potential.
FP111		Flood Plain (FP)	No Well Observed	Very Good	LS	RW TW	<30 m	250-350 LPM	Very High	P	Nil	Not Required	Potable water available at shallow depth.
PAS18	Chalsa /Matiali /Thaljhora/ Samsing Formation (Lt.Pleistocene-Er.Holocene) (Bushing Companies (81) (81) (81) (11) (81) (12) (81)	Piedmont Alluvium Shallow (PAS)	No Well Observed	Good	LS	RW TW	5 - 10m	50-100 LPM	Low to Moderate	Р	Nil	Not Required	Moderate ground water prospect at shallow depth along piedmont sl
PAM18		Piedmont Alluvium Moderate (PAM)	No Well Observed	Good	LS	RW TW	40-60 m	300-400 LPM	Moderate	Р	Nil	Not Required	Good ground water prospect at moderate depth along piedmont slope.
\$HH511	Sandstone & Conglomerate (511)	Structural Hill Highly Dissected (SHH)											
SHH533	Garbonations of the control of the c	Structural Hill Highly Dissected (SHH)											
SHH93	(Reyang Frm) (Proterozoic) (Brown) (Proterozoic) (Brown)	Structural Hill Highly Dissected (SHH)	Essentially run-off zone. Drinking water sources primarily from springs and river/stream water. Limited prospects within Intermontane Valleys.										
	Gorubathan Formation) (Gorubathan Formation) (Broterozoic) (60 cmation) (10 cmation) (10 cmation) (11 cmation) (12 cmation) (12 cmation) (13 cmation) (14 cmation) (15 cmation) (16 cmation) (17 cmation) (18 cmation) (19 cmation) (10 cmation) (10 cmation) (11 cmation) (12 cmation) (13 cmation) (14 cmation) (15 cmation)	Structural Hill Highly Dissected (SHH)	Elmited prospects within intermontane valleys.										
		Structural Hill Moderately Dissected (SHM)											
SHW831	Gentral Crystalline Granitoid Gneiss/ Granitoid Gneissic Granitoid/ Granitoid Complex (831)	Structural Hill Moderately Dissected (SHM)											
F// — –		ult / fracture zones, which ge	enerally act as conduits for mo	vement of ground water in	hard rocks. Along these zor	nes, the yields are significant	ly higher and wells a	e likely to be sustaina	ble for longer duratio	n. However, the inferre	d fractures need to be o	confirmed by detailed ground surveys).
D /QQ /	/ P_P These are	dykes quartz reefs and	d pegmatite veins, which g	enerally act as harriers	for ground water moven	aont							

