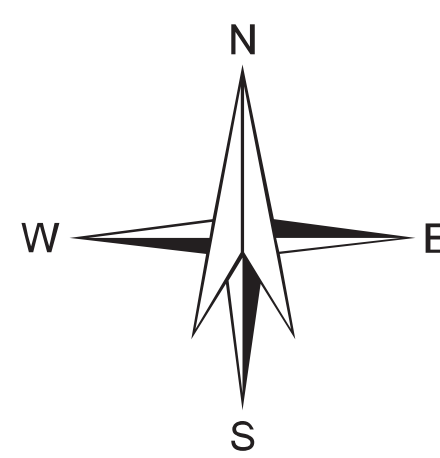
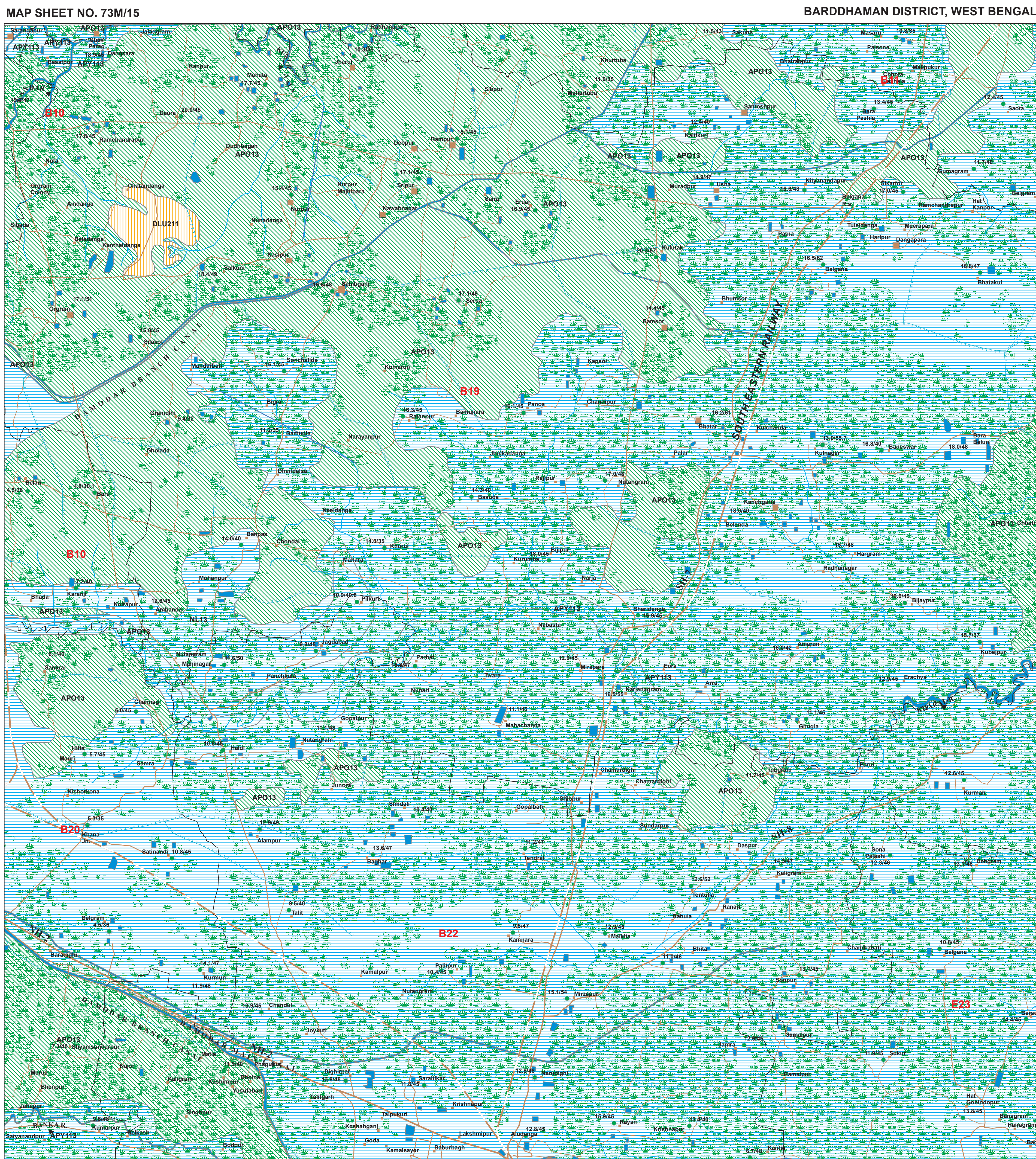


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



MAP UNIT (HYDROGEOGRAPHIC 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	REMARKS (PROBLEMS / LIMITATIONS)
		(REPRESENTED IN THE MAP WITH NUMERIC CODE)	(REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	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 NOTABLE (P) NON-POTABLE (NP)	GROUND WATER IRRIGATED AREA (APPROX. RANGE IN FEEDBACKAGE)		
		Alluvium (Sand Dominant) (111)	Point Bar (PB)	$\frac{6}{1}$	Very Good	LS = LOOSE SEDIMENTS PS = PERMEABLE ROCK RS = RECHARGE STRUCTURE WS = WEATHERED ROCK MS = MODIFIED MATERIAL IR = IMPERVIOUS ROCK	DW = DUG WELL RW = RING WELL DW = DUG WELL TW = TUB WELL DOW = DUG CUM DOWE WELL DTW = DUG CUM TUBE WELL	5-10 m	300-400 LPM	Very High	P	7%	Not Required	Groundwater prospects very high with high recharge potential. Recharge structures not required.
		Alluvium (Sand and Silt) (113)	Alluvial Plain Younger (APY)	$\frac{9.7 - 19.0}{HP - 2}$	Very Good	LS	DW TW	10 - 12 m 20 - 30 m	100 - 125m ³ /day 200 - 250 LPM	Very High	P	82%	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structures are not required as good recharge conditions prevail.
		Alluvium (Sand, Silt and Clay) (13)	Natural Levee (NL)	$\frac{7.2 - 14.0}{HP - 6}$	Good to Very Good	LS	DW TW	10 - 15 m 25 - 30 m	50 - 75 m ³ /day 200 - 250 LPM	High	P	6%	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structures are not required as good recharge conditions prevail.
			Alluvial Plain Older (APO)	$\frac{4.5 - 19.3}{HP - 78}$	Good	LS	DW TW	10 - 15 m 40 - 60 m	50 - 75 m ³ /day 150 - 200 LPM	High	P	64%	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structures are not required as good recharge condition prevails.
		Lalgarh/Illambazar Formation (Middle to Upper Pleistocene)	Laterite Fertile-hard crust, lateritic nodules and lithomarge clay) (Z11)	No wells observed	Poor to limited	WM + IR (Impervious Material)	TW / BW	80 -100 m	30 - 50 LPM	Low	P	Nil	Not Required	Essentially run-off zone where hard crust is present. Areas of lateritic nodules are recharge zones with deep water table conditions. Small patch with sparse settlements. Not suitable for large scale development of ground water.
<div><div><div><div>F</div><div>F</div><div>/</div><div>---</div><div>---</div></div><div>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.</div></div><div><div><div><div>D</div><div>D</div><div>/</div><div>Q</div><div>Q</div><div>---</div><div>Q</div><div>---</div><div>Q</div><div>---</div><div>P</div><div>P</div><div>---</div><div>P</div><div>---</div></div><div>These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.</div></div></div><div><div><div><div>N.B.</div><div>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.</div></div></div></div></div>														

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