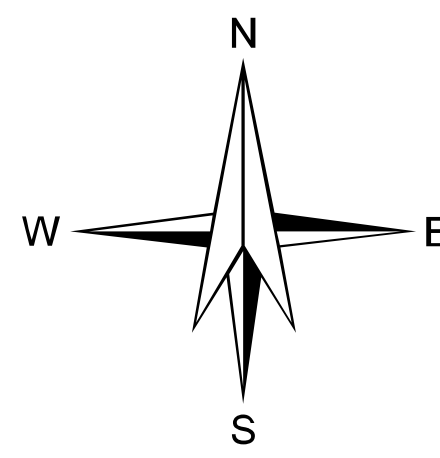
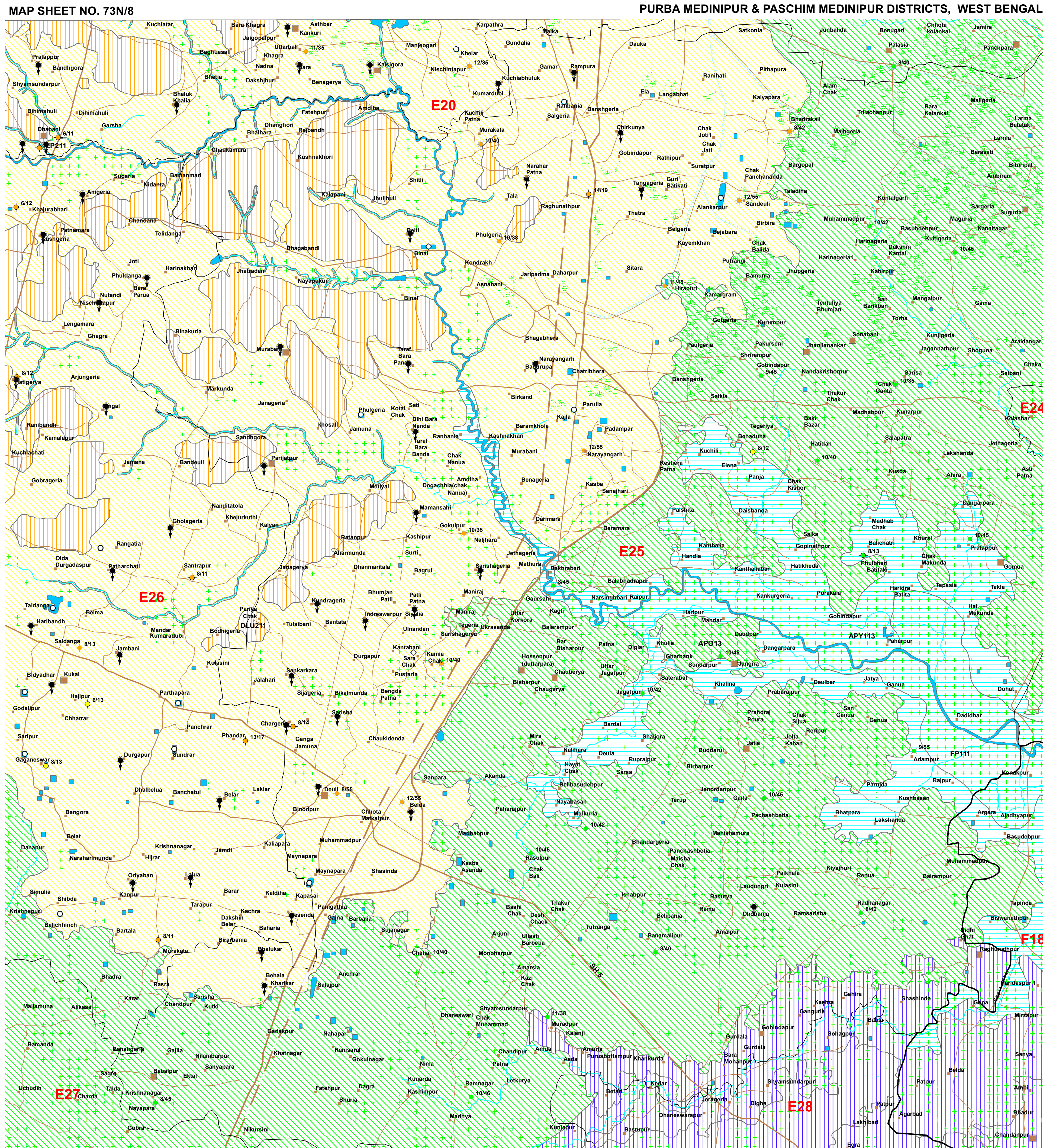


0 1 2 3 4 5 Kilometers

SCALE - 1 : 50,000



MAP UNIT <small>(HYDROGEOLOGIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE DEPTH RANGE)</small>		GEOLOGICAL SEQUENCE / ROCK TYPE	GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL <small>PRI / POST-MONSOON (AVERAGE IN METERS)</small> <small>NO. OF WELLS OBSERVED</small>	RECHARGE CONDITIONS <small>BASIS ON AVAILABILITY OF WATER</small> <small>(RAINFALL & OTHER SOURCES)</small>	GROUNDWATER PROSPECTS								RECHARGE STRUCTURES SUITABLE & PRIORITY	REMARKS <small>(PROBLEMS / LIMITATIONS)</small>
						AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS <small>(SUGGESTED)</small> <small>MIN. MAX. (IN METERS)</small>	YIELD RANGE OF WELLS <small>(EXPECTED)</small> <small>(L/H LPM or m³/day)</small>	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS <small>(PROBABILITY)</small> <small>VERY HIGH MODERATE LOW</small>	QUALITY OF WATER <small>POTABLE (P) NON-POTABLE (NP) (UNDERSCORE REGION P NON-POTABLE)</small>	GROUND WATER IRRIGATED AREA <small>(APPROX. RANGE IN PERCENTAGE)</small>			
						LS	RW	<30 m	250-350 LPM	Very High	P	87	Not Required	Potable water available at shallow depth.	
						LS	TW	>150 m	400-500 LPM	High	P	Nil	Not Required	Potable water available at depth range above 150 m within and around Moyna basin.	
						LS	TW	25-30 m	200-250 LPM	High	P	26.4	Not Required	Potable water available at depth range below 30 m in areas adjacent to APO.	
						LS	TW	150-250 m	200-250 LPM	Moderate to High	P	73.5	RW Moderate to Low	Moderate groundwater potential at intermediate depths.	
						LS underlain by WM+FR	TW/BW	50-60 m	75-100 LPM	Moderate	P	Nil	DT Moderate	Recharge structure will increase the sustainability of groundwater source.	
						WM+FR	TW/BW	50-60 m	50-100 LPM	Moderate	P	Nil	RW/ DT High	Areas of exposed lithomarge clay. Fracture zones form the aquifer, recharge structures will enhance groundwater development.	
						WM+IR (Impervious Material)	TW/BW	80-100 m	30-50 LPM	Low	P	Nil	Not Required	Essentially run-off zone where hard capping is present.Areas of nodularlaterites are recharge zones with deep water table conditions. Primarily forested areas with sparse settlements.Not suitable for large scale development of groundwater.	
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.															

[illegible]