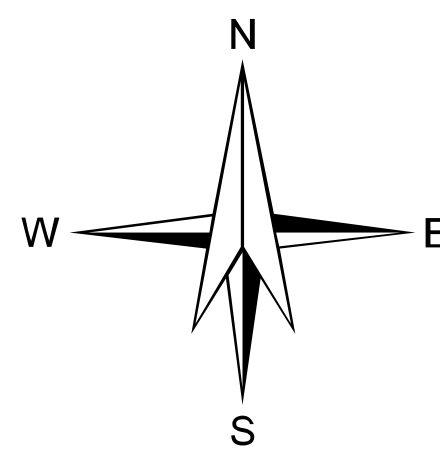


(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



SOUTH 24 PARGANAS DISTRICT, WEST BENGAL

LEGEND

GROUND WATER PROSPECTS														RECHARGE STRUCTURES SUITABLE & PRIORITY		REMARKS (PROBLEMS / LIMITATIONS)	
MAP UNIT (HYDROGEOMORPHIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGES AND HATCHING INDICATE DEPTH RANGE)	GEOLOGICAL SEQUENCE / ROCK TYPE		GEOMORPHIC UNIT / LANDFORM	DEPTH TO WATER LEVEL	RECHARGE CONDITIONS	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 WATER IRRIGATED AREA (APPROX. RANGE IN PERCENTAGE)	PT CD ND RW DT RR RC ST SCM				
	(REPRESENTED IN THE MAP WITH NUMERIC CODE)	(REPRESENTED IN THE MAP WITH ALPHANETIC CODE)		PRE / POST-MONSOON (AVERAGE IN METERS) NO OF WELLS OBSERVED	BASED ON AVAILABILITY OF WATER (RAINFALL & OTHER SOURCES)	L3 = LOOSE SEDIMENTS P3 = PERMEABLE ROCK F3 = FISSURED ROCK FR = FRACTURED ROCK WR = WEATHERED ROCK WI = WEATHERED MATERIAL IR = IMPERVIOUS ROCK	DN = DUG WELL RW = RING WELL RW = ROPE WELL TB = TUBE WELL DWB = DUG CUM DORE WELL DTW = DUG CUM TUBE WELL	MIN - MAX (IN METERS)	(IN LPM or m ³ / DAY)	(PROBABILITY) VERY HIGH HIGH MODERATE LOW	(RELATIVE RANGING P NON- POTABLE)						
<div>DPY112</div>	Active Estuarine Deposits (Present Day)	Alluvium (Sand and Silt) (112)	Deltaic Plain Younger (DPY)											F o r e s t a r e a , n o h a b i t a t i o n - - h e n c e n o r e c o m m e n d a t i o n .			
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.																	
<div>D____D / Q____Q / P____P D____D / Q____Q / P____P</div>								These are dykes, quartz reefs and pegmatite veins, which generally act as barriers for ground water movement.									
								Sand Flat (SF112), Mud Flat (MF12) & Beach (BH112) is without habitation, not used for groundwater extraction.									
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.																	