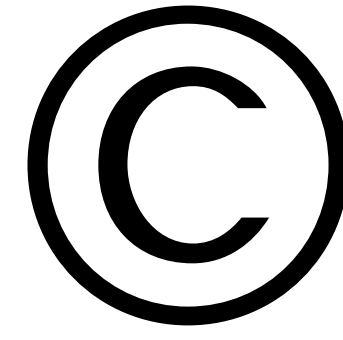
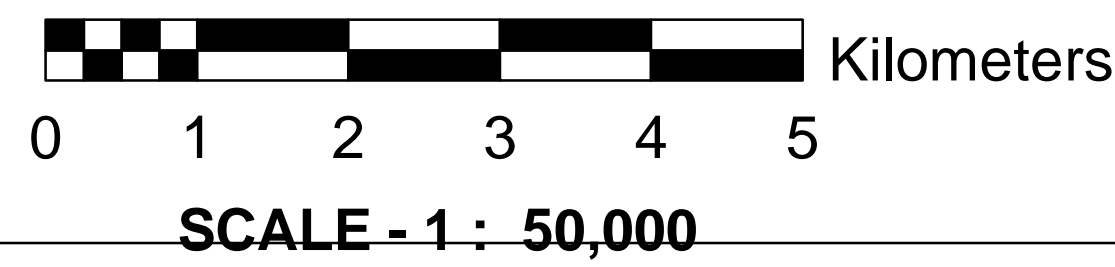


GROUND WATER PROSPECTS MAP

(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



MAP SHEET NO. 78D/3 SCALE - 1 : 50,000 BIRBHUM DISTRICT, WEST BENGAL



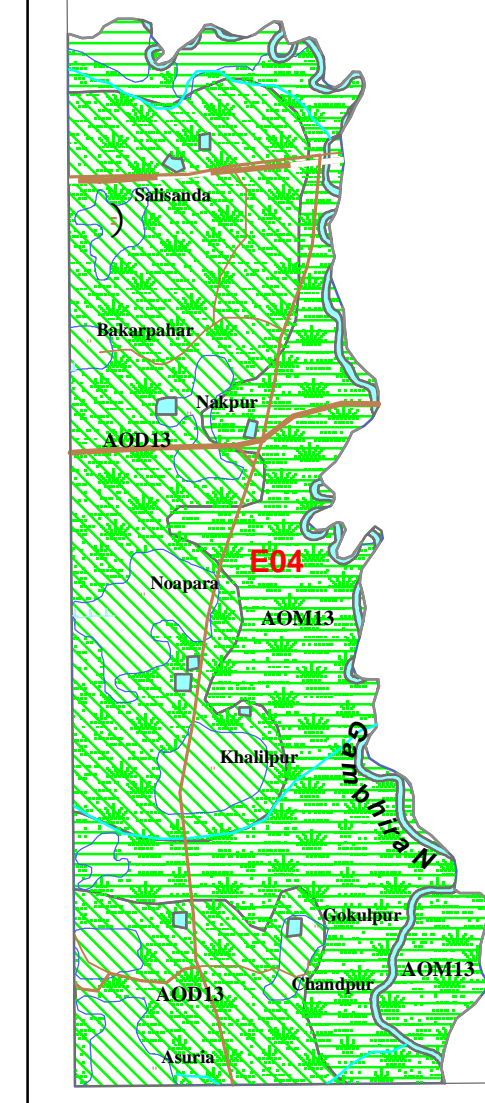
LEGEND

MAP UNIT (HYDROGEOLOGICAL UNIT) REPRESENTED IN THE MAP WITH ALPHABETIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATES DEPTH RANGE)	GEOLOGICAL SEQUENCE / ROCK TYPE (REPRESENTED IN THE MAP WITH NUMERIC CODE)	GEOMORPHIC UNIT / LANDFORM (REPRESENTED IN THE MAP WITH ALPHABETIC CODE)	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 & PRIORITY	REMARKS (PROBLEMS / LIMITATIONS)	
					AQUIFER MATERIAL	TYPE OF WELLS SUITABLE	DEPTH RANGE OF WELLS (SUGGESTED) (IN METERS)	YIELD RANGE OF WELLS (SUGGESTED) (IN LPM or m ³ /day)	HOMOGENEITY IN THE UNIT RATE OF WELLS (PROBABILITY) VERY HIGH HIGH MODERATE LOW	QUALITY OF WATER (NON-POTABLE (NP) NON-POTABLE (NPP) NON-POTABLE (NPP))			GROUND WATER BRISGATED AREA (APPROX. RANGE IN PERCENTAGES)
AOM13	Alluvium (Sand with Silt and Clay) (13)	Alluvial Plain Older - Moderate (AOM)	No Wells observed	Good	LS	DW TW	10 - 15 25 - 30	50 - 75 m ³ /day 150 - 200 LPM	High	p	Nil	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structure are not required as good recharge condition prevails
AOD13	Alluvium (Sand with Silt and Clay) (13)	Alluvial Plain Older - Deep (AOD)	No Wells observed	Good	LS	DW TW	15 - 20 30 - 50	50 - 75 m ³ /day 175 - 200 LPM	High	p	Nil	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structure are not required as good recharge condition prevails

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.

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 inhomogeneities. Fractures/Linements 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.



GROUND WATER PROSPECTS INFORMATION <table border="1"> <thead> <tr> <th>WELL YIELD RANGE OF WELLS</th> <th>COLOUR CODE</th> <th>DEPTH RANGE OF WELLS</th> <th>SHALLOW</th> <th>MODERATE</th> <th>DEEP</th> </tr> </thead> <tbody> <tr> <td>> 400 LPM</td> <td>VIOLET</td> <td>< 10 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>400 - 800 LPM</td> <td>INDIGO</td> <td>10 - 20 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>200 - 400 LPM</td> <td>BLUE</td> <td>20 - 30 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>100 - 200 LPM</td> <td>GREEN</td> <td>30 - 40 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>50 - 100 LPM</td> <td>YELLOW</td> <td>40 - 50 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>30 - 50 LPM</td> <td>ORANGE</td> <td>50 - 60 METERS</td> <td>[Symbol]</td> <td>[Symbol]</td> <td>[Symbol]</td> </tr> <tr> <td>20 - 30 LPM</td> <td>BROWN</td> <td>60 - 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