

GROUND WATER PROSPECTS MAP

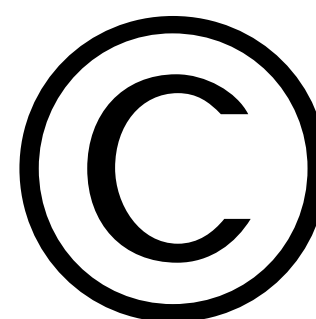
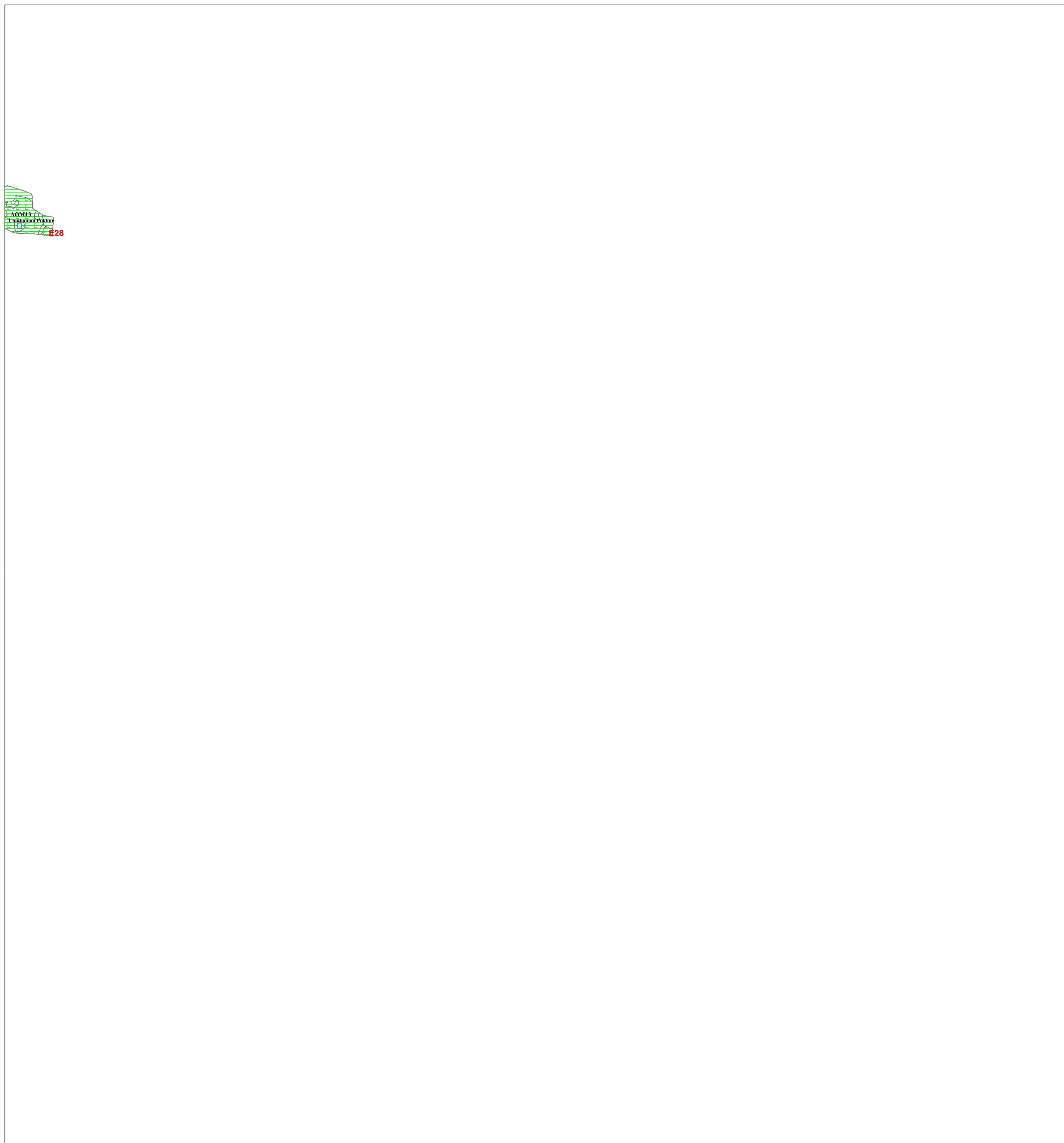
(PREPARED FROM SATELLITE IMAGE INTERPRETATION WITH LIMITED FIELD CHECKS)



SCALE - 1 : 50,000

MAP SHEET NO. 730/9

PASCHIM MEDINIPUR DISTRICT, WEST BENGAL



LEGEND

MAP UNIT (HYDROGEOLOGIC UNIT) REPRESENTED IN THE MAP WITH ALPHANUMERIC CODE (COLOUR INDICATES YIELD RANGE AND HATCHING INDICATE 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 (RECORDED MONTHLY 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 (EXPECTED)	YIELD RANGE OF WELLS (EXPECTED)	HOMOGENEITY IN THE UNIT & SUCCESS RATE OF WELLS (PROBABILITY)			QUALITY OF WATER (BASED ON NON-FOSSIL FRESH)	GROUND WATER RECHARGE AREA (APPROX. RANGE IN PERCENTAGE)
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	50%	Not Required	Aquifer is formed of sandy part of alluvium. Recharge structure not required as good recharge conditions prevail.

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/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.

GROUND WATER PROSPECTS INFORMATION	HYDROLOGICAL INFORMATION	STRUCTURAL INFORMATION	BASE MAP INFORMATION	LOCATION INFORMATION
<p>YIELD RANGE OF WELLS</p> <p>COLOUR CODE</p> <p>DEPTH RANGE OF WELLS</p> <p>PROSPECTS</p> <p>RECHARGE STRUCTURES SUGGESTED</p>	<p>DESCRIPTION</p> <p>SYMBOL</p> <p>RECHARGE STRUCTURES SUGGESTED</p> <p>TECHNICAL GUIDANCE & QUALITY CHECK</p>	<p>STRUCTURAL INFORMATION</p> <p>SYMBOL</p> <p>RECHARGE STRUCTURES SUGGESTED</p>	<p>BASE MAP INFORMATION</p> <p>SYMBOL</p> <p>RECHARGE STRUCTURES SUGGESTED</p> <p>OTHER INFORMATION</p>	<p>LOCATION INFORMATION</p> <p>STATE INDEX</p> <p>DISTRICT INDEX</p> <p>BLOCK INDEX</p> <p>MAPSHEET INDEX</p>
<p>Prepared by GEOINFORMATICS & REMOTE SENSING CELL W.B. STATE COUNCIL OF SCIENCE AND TECHNOLOGY DEPARTMENT OF SCIENCE AND TECHNOLOGY GOVERNMENT OF WEST BENGAL 4TH FLOOR BIKASH BHAVAN SALT LAKE, KOLKATA 700 091</p>	<p>Technical Guidance & Quality Check NATIONAL REMOTE SENSING CENTRE INDIAN SPACE RESEARCH ORGANISATION (ISRO) DEPT. OF SPACE, GOVT. OF INDIA BALANAGAR, HYDERABAD - 500 625</p>	<p>Participating Organizations Survey of India Geological Survey of India PHED, Govt. of West Bengal State Water Investigation Directorate, GoWB P.S. Maps (Land Record), Govt of West Bengal</p>	<p>Methodology & Project Execution NATIONAL REMOTE SENSING CENTRE INDIAN SPACE RESEARCH ORGANISATION (ISRO) DEPT. OF SPACE, GOVT. OF INDIA BALANAGAR, HYDERABAD - 500 625</p>	<p>Sponsored by RAJIV GANDHI NATIONAL DRINKING WATER MISSION DEPARTMENT OF DRINKING WATER SUPPLY (DDWS) MINISTRY OF RURAL DEVELOPMENT GOVERNMENT OF INDIA NEW DELHI</p>