

**GROUND WATER POTENTIAL OF THE NORTH EASTERN PART OF SRI LANKA
WITH SPECIAL REFERENCE TO MAHAWELI SYSTEM 'B' AREA**

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An attempt is made to understand ground water potential of the Mahaweli System 'B' area by means of electrical and electromagnetic investigation methods and by borehole drilling.

The ground water aquifer systems are developed in the area by weathering and fracturing of crystalline rock formations. Their occurrence at a particular depth range is clearly related to the geology, structure and tectonics of the area, and can yield water even in the dry season.

Ground water potential of the south western part of the project area is considerably lower than the rest of the area. Patches of water with high electrical conductivity are reported in the north eastern part of the project area. High fluoride and iron concentrations also have been reported but no particular pattern is indicated.