

Hydrological Remote Sensing: Journal of Geophysics and Remote Sensing

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In hard rock areas, groundwater exploration still remains a difficult task owing to the complex deformational histories of the wide range of lithological formations.

State-of-the-art geospatial technologies for imaging the earth and its subsurface are invaluable tools; especially when direct measurements are sparse or even impossible.

Geospatial technology with their advantages of spatial, spectral and temporal availability and manipulation of data covering large and inaccessible areas within a short time have become very handy tools in accessing, monitoring and conserving groundwater resources.

Sophisticated subsurface investigation techniques using seismic and electromagnetic waves can produce geological 'data maps'. This can potentially reveal reservoirs of water as well as geotechnical properties such as soil stiffness and -depth or rock quality.

In hard rock terrain such as the Mamundiyar basin (India), interpretation of satellite data for delineation of lithological units, weathered zones, mapping of lineament density and their trends as well as intensity, are discriminatory features and form a valuable aid for the location of groundwater areas.. The groundwater prospect map is a systematic effort and has been prepared using integrated approach of remote sensing and GIS.

This Integrated approach of remote sensing and GIS proved the possibility of deciphering of groundwater potential zones in hardrock terrain like Mamundiyar basin [1].

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Reference

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