

## IDENTIFICATION OF RESPONSIBLE SOURCE FOR RISE IN GROUNDWATER

### TABLE OF JODHPUR CITY, RAJASTAN, INDIA

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#### ABSTRACT

*Groundwater level has been rising in at least 40% of the land area in Jodhpur city, Rajasthan, India, which is raised up to hardly a few centimeters to five meters below the ground surface. In hard rock area, occurrence and movement of groundwater resources depends upon its geology and hydrogeology. From the detail interpretation of satellite imagery, a number of minor and major lineament sets have been identified. Hydrogeological studies based on the data of water table, rainfall and reference level of surface water of Kailana Lake reveal that rise in water table is mostly due to increase in water level of Kailana Lake-Takht Sagar. It has been inferred from the study that due to increase in the water level of Kailana Lake-Takht Sagar, the rate of seepage of lake water is more which passes through the lineaments, recharges the surrounding regions and contributes towards rise in water table of the city and its adjoining area.*

**KEYWORDS:** *Kailana Lake, Jodhpur City, Hydrogeology, Water Table Rise, Lineaments*

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