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Guided By

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Project Title

SOIL MAPPING AND SALINITY ZONE IDENTIFICATION USING REMOTE SENSING AND GIS

Abstract:

Salinity is a most damaging property of soil and a serious problem for deteriorating health of crop in arid regions of the world. It can be caused naturally or by anthropogenic process. So it is necessary to take precaution and identify the most affected zones of soil at the initial level of saline condition. Remote sensing provides the most sound method by providing the satellite data of temporal basis to identify the most saline zones by spectral reflectance of different bandwidth information, as well can reach the inaccessible areas where land survey is not possible. Whereas GIS is helpful in accurate modeling and mapping by different software. The main purpose of this work is to reach to decision by amalgamation of Remote Sensing data and GIS mapping with incorporation of the tested physio-chemical parameters of soil by ground sampling and lab testing method. Thus it can provide the accurate information of most pronounced saline zone, moderate as well as poorly affected saline zones for helping to improve the condition by opting management. Key Words: Remote Sensing and GIS, physio-chemical parameters of soil, Salinity zonation

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