

THE PRELIMINARY SURVEY AND ANALYSIS OF TALVEDA VILLAGE LIFT IRRIGATION USING DEM

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Abstract:

This paper describes the analysis of lift irrigation in Talveda Village, Nizamabad district, Telangana. The lift irrigation main work is to lift the water from low elevation (river) to high elevation (hill). It is combined with water and land elevation, this conservation of water will help for more cultivation of agriculture land and domestic purpose of the study area. Talveda village Watershed model prepared by SAGA software and we calculated the break horse power and discharge of water from the pump. This is a Preliminary survey for lift irrigation project to analyze the elevation, contour, slope, flow direction, watershed basins of the study area with Digital elevation model. Godavari River to talveda village the distance is 8 km, and elevation is 348.6 m or 1143.8 feet, the diameter of the pipe is 914mm, water velocity is 5 fbs and we concluded that discharge 1000 lps of water possible to the occupation of surface water 700ha. We concluded that if the construct of lift irrigation that will help to cultivate 700hectars of land.



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