

**WATER RESOURCES DEVELOPMENT ACTION PLAN FOR NAGZIRA
WILD LIFE SANCTURY, GONDIA DISTRICT, MAHARASHTRA
USING REMOTE SENSING AND GIS**

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ABSTRACT

The present paper deals with water resource development action plan for Nagzira Wildlife Sanctuary watershed of Gondia district, Maharashtra using remote sensing and GIS techniques. The suitable site and check dams for watershed are suggested in consideration with physical parameters of the area to fulfill the increasing demand of water for wildlife. The study reveals that after the execution of the proposed plan, wild life can make most beneficial use of water of the proposed watershed to minimize Human Wildlife Conflict. The interpretation of remote sensing data in combination with auxiliary data and adequate ground information makes it likely to recognize and sketch various ground features such as geological, geomorphic, structural and hydraulic parameters that may act as direct indicators of water resource development action plan for Nagzira Wildlife Sanctuary watershed. Remote sensing data and GIS have emerged, to meet ever-increasing demand for more specific and timely information. These techniques consent rapid and gainful natural resource survey and management. Remotely sensed data is used for accruing factual information on geology, geomorphology, structural pattern and drainage system, which help to engender water resources development action plan of Nagzira Wildlife Sanctuary. The study reveals that average availability of water for the wildlife in the proposed reservoirs will be 208125 cubic meters for whole year.

KEYWORDS: Nagzira Wildlife Sanctuary (NWS), Human-Wildlife Conflict (HWC), Survey of India (SOI)