

Disaster Management of Panchaganga Flood Near Kolhapur Region

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Abstract: *In India most of the disasters are caused by floods, about 60% of the landmass is prone to earthquakes of various intensities, over 40 million hectares is prone to floods, about 8% of the total area is prone to cyclones and 68% of the area is susceptible to drought. The main aim of the present study was to evaluate its management, the potential flood risk areas of Panchaganga river and Krishna River using GIS and diverging flood water through underground tunnel from Panchaganga ghat to Gandhinagar. The flood scenario across the Panchaganga river was analyzed using data of August 2019 by segregating flooded areas. Factors considered for evaluation of the flood risk analysis were flood layers, evaluation, river basin and land cover analysis by AHP Method. This management was used to compute by using GIS and sensors, to access flood risk of Panchaganga river.*

Keywords: Disaster Management, Flood risk, GIS Technique, AHP Method, Sensors, Flood, Fire, etc.

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