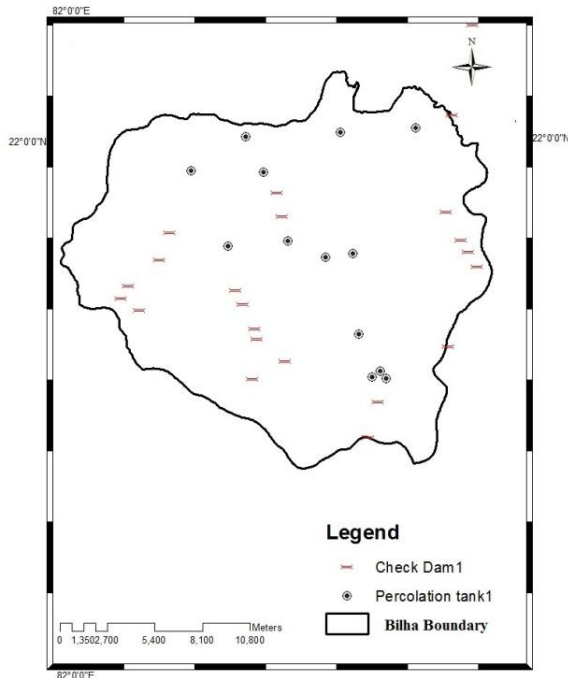


4. Conclusions

Thematic map including drainage, geology, lineament, soil and slope maps were considered to identify the location of groundwater recharges structures. The suitable recharge sites were suggested accordingly for Bilha Block of Bilaspur district.



In Bilha Block, check dam and percolation tank were found to be 17 and 6, 3 and 4, 1 and 3 numbers of small, medium and large size, respectively. Various thematic map including slope, land use/land cover, drainage, soil texture, lineament, geology and depth to water level (pre and post monsoon) can be generated using GIS techniques and image processing software which can be further utilized for groundwater recharge planning and management. Overlay technique is proved to be useful for identification of location for different groundwater recharge structures. Overlay of the drainage map, slope map, land use/cover map, drainage map, soil map, lineament map, Geology map and depth to water level map resulted in identification of fairly accurate location for artificial groundwater recharge. 364 and 34 numbers of groundwater recharge structure can be constructed in the Bilaspur and Bilha block respectively. Total 868.36 Mm³ water is available for recharge in Bilaspur district respectively.

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Author Profile



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