

## **Glaciofluvial-lacustrine geo-environment of the Kalimati formation**

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### **Abstract**

This research attempts to explore North-Eastern belt of Kathmandu valley. It is an effort to demonstrate the present situation of that area and is an approach to identify evolutionary mechanism of Kalimati Formation. Primarily this report focuses on Sedimentological features of Kalimati formation, Geoenvironmental problems associated with it and its possible solutions.

Information of climatic section at nearby station were collected from DHM and analyzed to relate them with other features. To identify and demonstrate Flora and Fauna of that region samples were collected and identified with the help of Experts of respected fields. Historic review was done to analyze the past incidents, and situations with present happenings, to show the trend of seriousness and other development. Analytical techniques applied during study are discussed in the Methodology section.

Man has learnt to fly in the air like a bird, and swim in the water like a fish, but he has forgotten to live like a man and living with the wrong belief, that “he is the master of nature”, hence there is no doubt that all the resultants of his misunderstandings and misguiding to nature has created loss of “Golden Moments and spiritually peaceful healthy yesterday and the days before that”. Focusing degradation of Kalimati formation and its environment, the major issue is the unplanned development of urban area and the mushrooming population demanding more energy and assimilating more wastes. Weak government policies and short term strategies are also equally responsible for this problem, including improper dumping of wastes anywhere and inefficient technological practices even in landfill site. One burning problem related to above statement of problem of Gokarna Landfill Site, with poor management practices resulting to various types of pollution and loss of productivity of land and spread of some diseases to people living around it.

Some issues of great significance for better justification of project were not practically feasible at this level which are considered from other literatures, some are possible only in long time experiments and some are still subject of

mystery, which are not included here, overall I hope this report will be helpful for interested people of this field.

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### **Notes to readers**

This is an abstract of first authors' M.Sc. project work on "Glaciofluvial-Lacustrine Geo-environment of the Kalimati Formation". Second author is the thesis supervisor. The full text of thesis is available from the Central Department of Environmental Science, Tribhuvan University, Kathmandu, Nepal.

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