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*Sustainable Development Goals: Initiatives,
Execution and Challenges*

Chief Editor

Dr. R. V. Bhole

'Ravichandram' Survey No-101/1, Plot
No-23, Mundada Nagar, Jalgaon (M.S.)

Guest Editor

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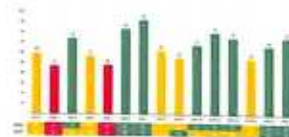
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Land Use/Land Cover Characteristics in Kallehol Village of Belgavi District of Karnataka: A Geospatial Analysis

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Introduction:

Land is one of the major and most important resources which consist of water, soil, associated with plant and animals involving the total ecosystem. With the rapid increase in population, an activity of human on land resource also has been increasing. For the need of food, energy and many others have to depend on the conservation and development of the productivity of this natural resource. It is also important to have the capability of monitoring the dynamics of land use resulting out of both changing demands of an increasing population and forces of nature acting to shape the landscape. Land is important natural resources and humans, not only live, but also perform economic activities on land. For various purposes land has been used either it may be the provision of shelter, extraction, food production and processing materials. Water and other resources culminate in the development of land use. A sequential development of land use with time results in different land utilization patterns and trends.

Study area

The study area is located at 15.8646° N, 74.4203° E. in Belgaum District .it covers an area of 849.42 hectares and accommodates 3,031 people. The climate of the study area is very hot in summer and extremely cold in winter. The cold season starts by the middle of November and continues up to the beginning of March. The summer season follows thereafter and extends up to the end of the June. The study area is located in high rainfall zone but in the summer season there is lack of water availability. In Belgaum taluk there are 10 rain gauge stations so one of them rain gauge station is located near Kallehol village. In this village 85% people are working in farm and 15 % people employee.

OBJECTIVES:

The main objective of the present study are:

- to assess the land use and land cover characteristics in the study area
- to determine the aerial change of land use/land cover data.

Data Base and Methodology:

Present research work based on primary and published data, Field Survey and Laboratory analysis and published data collected from District statistic department Belgaum, Karnataka ArcGIS Desktop10.3 for Vector and Raster based analysis such as Map Overlay, Proximity Analysis, Rainfall Interpolation, and for generating Flow Accumulation map, Raster Stream Network and Stream Order map. Q-Gis has been used for digitizing study area.

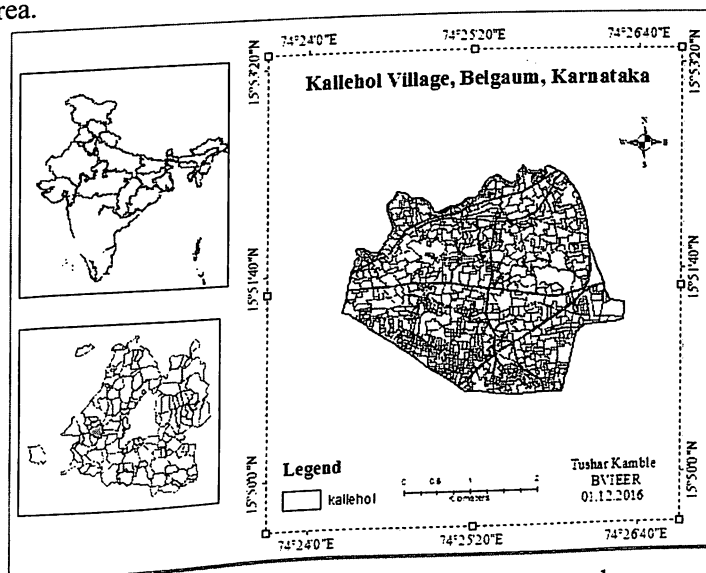


Figure:1. Kallehol village, Belgavi, Karnataka

Land Cover/Land Use in Kallehol village:

Study are is only 8.2 sqkms so its very difficult to LULC using the 30 m resolution satellite image so the land use /land cover map was generated by visual interpretation of the Google earth image. The study area is 90% covered by agriculture and rest area is covered by mining area, settlement, barren land and grass land.

The land best suited for check dams are barren land and hence it is given high suitability score while the other land uses such as cultivable land, vegetation, water body, settlement etc.,.

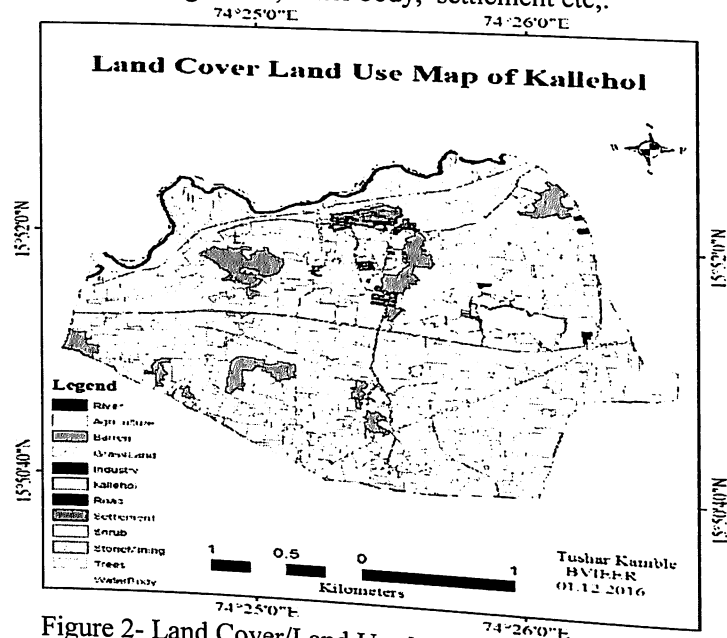


Figure 2- Land Cover/Land Use Map of Kallehol.

Table: 1. Ranking For Land Use Land Cover Kallehol Village:

Sr No	Land use Land cover	Ranking (In Word)	Ranking(In Number)
1	Crop Land	Good	1
2	Crop Cultivated Land	Good	1
3	Barren	Poor	1
4	Grass	Good	3
5	Industry	Poor	1
6	River	Good	4
7	Paved Road	Poor	1
8	Unpaved Road	Moderate	4
9	Settlement	Poor	3
10	Mining	Poor	4
11	Tree	Moderate	4
12	Lake	Good	2
			1

Table: 2. Classification of Land Use Land Cover Kallehol Village:

Sl.No	Land use Land cover	Ranking (In Word)	Ranking(In Number)
1	River, Lake , Crop Land, Crop Cultivated Land and Grass land	Good	I
2	Tree and Unpaved Roads	Moderate	II
3	Industries, Mining, Settlements, Paved Roads, Barren land	Poor	III

In the present study the area under agricultural use was occupied large area as compared to other. Total geographical land was classified major three groups, good, moderate and poor. In this study area , River, Lake, Cultivated land and grass land area covered good in condition, trees and unpaved roads are

moderate in condition and industries, mining, settlements, paved roads and barren land is poor in condition.

Conclusion:

Land use and land cover area of study region refers to more intensive cultivation of formerly rain fed or under-irrigated plots of land resulting in higher yields per hectare and requiring more person days of labor. Some lands that only produced only a single crop previously can now be double-cropped, adding an additional season of labor. Formerly barren lands have now been brought under irrigation as a direct result of the water availability with the advent of check dams. Owners of this property now have additional days of agricultural employment. Kallehol village is suffering from lack of basic amenities and facilities. This village is haphazardly developed without proper network of roads, insufficient drinking water, bad sewerage system, etc., to achieve long-term objectives of Kallehol village.

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