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GEO – ECONOMIC STUDY OF BRICK INDUSTRIES – A CASE STUDY OF GIRNA RIVER BASIN IN JALGAON DISTRICT

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ABSTRACT

Now a day with increasing population there is a tremendous increase in construction industries all over the world. Cities as well as village are growing fastly. Construction industries are ever growing industry which requires land, soil, water, ash, as a raw material. Brick making industry is raw material oriented. Therefore all the brick making kilns are located on the both banks of Girna River in Jalgaon district. The badland area on the banks provided abundance soil and nearness to the river supplies plenty of water. Jalgaon, Bhusawal, Erandol, Pachora and surrounding area are huge market for bricks. Brick industry plays an important role in rising of socioeconomic condition of the people and generation of employment.



KEY WORDS: Brick industry, Badlands, Socioeconomic, Abundance & Girna River.

INTRODUCTION :

Bricks play an important role in construction. It is one of the important materials for construction industries. It provides jobs and employment hence also having nodal location in economy of the region. The most of the brick industries are located on river banks due to the availability of essential raw material like sand, clay and water.

MAJOR INPUTS IN BRICK INDUSTRY:-

Land: - Brick industry requires big area plot. The plots which are close to rivers are highly demanded.

Clay: - Soil the bad landed of river channel is required as a raw material that used to produce bricks. The study area has ample stock of such soil.

Water: - Abundant supply of water is the pre- requirement of brick industry. About 500 litres of water is required for preparation of 1000 bricks. The water is easily available if the brick industries are located on river banks.

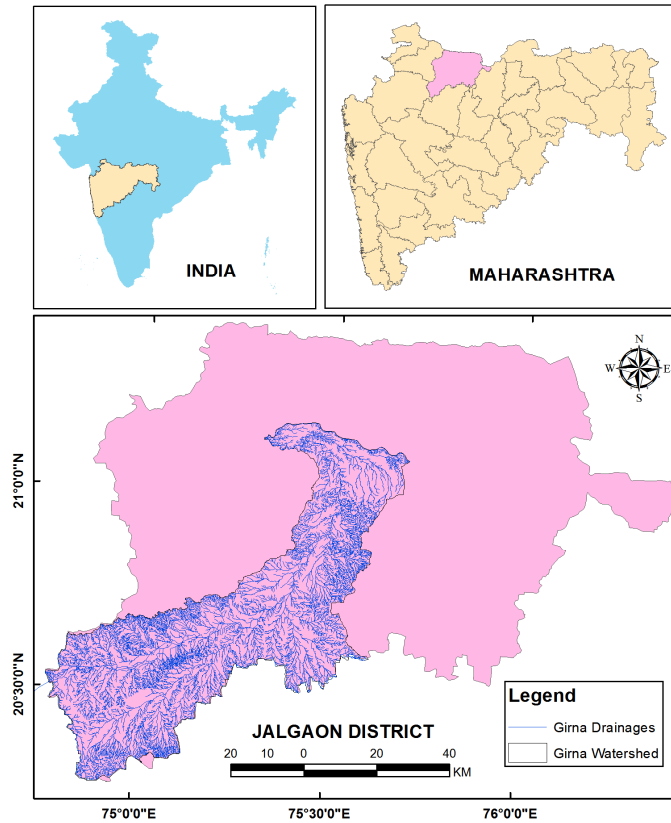
Labour: - Brick industry is a labour intensive industry labours are easily available in study region at low wages.

Transportation: - Good road transportation network is also required for transportation of bricks to construction sites.

Study Region: - Girna river in Jalgaon district has been selected for present study. It is an important river in Jalgaon district. It is one of the main tributaries of Tapi River. The brick industries on Girna river in Jalgaon district are studied. The Study area lies between 20° 16' 9" N to 21° 25' 3" N Latitudes and 74° 45' 34" E to 76° 24' 8" E Longitude (Map 1). The Elevation of the study area is 200 meters the basin of Girna river covers an

area 3386.5 sq.km. in Jalgaon District. It flows through Chalisgaon, Bhadgaon pachora Erandol Jalgaon and Dharangaon tahsil of the Jalgaon district. The area is dominated by Black sticky soil (Regur Soil). The Distribution of rainfall is uneven in study region. The average annual rainfall is 650 to 700 mm.

Location of study area



Map 1: Location Map of Study Area

POPULATION OF STUDY AREA:-

According to census 2011, the total population of the study region (Jalgaon district) is 42,24000 Agriculture is a major occupation of the study region.

Objectives: - To study the socio- economic changes occurs due to brick industries located on the Banks Girna river in Jalgaon district.

METHODOLOGY AND DATE BASE:-

All the primary data have been collected in the field to visit the brick kiln through questionnaire gazetteers and census of Jalgaon district has been consider for population data socio-economic review of the Jalgaon district is also referred for collection of data and information regarding brick kilns.

RESULTS AND DISCUSSION:-

Nature of brick units in the study area is small brick units, medium brick units and large brick units.

Economics Aspects:-

Sr. No.	Nature of Brick units	Daily Production of bricks	Bricks units
1	Small Bricks Units	1500-2500	10
2	Medium Bricks Units	2500-4000	10
3	Large Bricks Units	4000 and above	10

Source: - Sample survey by Author

TRANSPORTATION COSTS:-

Transportation costs play an important role in total cost of the brick. About 80% brick owner has their own vehicle to transport the raw and finished product of the brick industry. To minimise the transportation cost 60% brick units mostly located on the banks of the river.

Temporal analysis of brick units in the study region:-

The brick industry is one of the most important industries in the study region. It is associated with the growth of settlement area. It leads to increase demand of bricks. Higher the construction there is positive growth of brick industry. For the temporal analysis of brick units the researcher calculated the index number. It has found that numbers of brick units in 2010 and up to 2018 has been grown up respectively. Maximum increase has been found between the years 2012 to 2015. It is only because of demand of bricks due to the increase in construction industries.

Temporal analysis of brick price in the study region:-

Year	Price in Rs.(per brass)	Index
2010	2100	95
2011	2800	125
2012	3000	137
2013	3200	142
2014	3850	158
2015	4500	166

Source: - Field survey by Interview

In the development of urban and rural section, demand of brick has nodal place. The demand of brick affects on brick price (per brass) from 2010 to 2015 have been taken into consideration. Index number is calculated to find out rise in brick price. For this 2010 year is considered as a base year in which price of bricks was Rs.2100 per 1000 bricks (brass) Rs. 3850 in 2014 and Rs. 4500 in 2015. It has found that priced of bricks has been increases since 2010 respectively. Industrialization, urbanization and overall socio- economic development in every sector of the study area are responsible to increase the brick prices.

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