

Analysis of Building Material and Its Impacts on Human Behaviour - Case Study of Hala

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Abstract - Building material has huge impact on health, safety and behaviors of human. Hala city are established as a small village on right bank of river Indus, 55km away from Hyderabad. The soil of the area is sweet and the locality is the agricultural land. The people build their homes using mud available to them. The organic material specially mud and adobe is human friendly. The research paper relayed upon the data collected through questionnaire based on the response of respondents of the Hala city. Through the analysis obtained data, it was assessed that the built environment is changed, that the living style has changed the culture values; the ratio of unemployment has been increase because of the built environment. The courtyard planning is better than today's planning. The structures constructed with the brick are human friendly and healthy, the new materials are the harmful for the health; the people of Hala were very happy and healthy. The roofs were made of the thatch, bamboo etc. the houses were cool and comfortable for the people and disease issue were also not there.

Keywords: Human Behavior, Organic Material, Human Friendly, Building Material, Health.

I. INTRODUCTION

The Architecture based on local and organic material and relatively small settlement is known as village. Villages are little small in size away from the main cities are Social Impacts on Buildings; basically cultural and social behaviors are changed with changing built environment. Society produces buildings not building produce society but virtually built environment also make a huge change in the society and human behavior. A building is a result of human efforts that govern by available material in locality and construction technology that local laborer familiar with. Although built environment not directly constitute a society but it support to endure many of its social methods that get shape because of the built forms.

Moreover, sometimes times we wonder that perhaps our physical surroundings effects the mode we live composed and

act toward one another in social states such as accommodation, healthcare, work, institute, and that constructions effect and become partial through society and its establishments, as well as by human performance.

Economic Impacts Presently the relations among human and environment are particularly significant. The more professionally we affect a consumer the more effectively we accomplish our strategic economic aims. It seems that architecture becomes an essential element of the economic strategies built to trigger off. Although the form and function remain two important architectural criteria the more important factor in architecture valuation is its impact into personal development of average single consumer.

II. PROBLEM STATEMENT

The local, Natural and organic building materials are vanishing away and replaced with process materials. People are unaware of the fact that,

1. This will affect their occupation, culture, living standards and built environment.
2. Labor involved in built environment shall be put out of job.
3. Masses shall be compelled to migrate from rural to urban that will damage agro-based communities.

The Horizontality is changing in verticality and that will modify skyline of the rural population. The change in skyline will change living habits of people and create new problems i.e. hiding of sun and light of neighbors. Such changes will create survival problem in rural population.

2.1 Objectives

For achieving the aim of the following objectives should be focused,

- To review the current scenario of the Hala and the impact on the residents of Hala.
- To explore the building materials and their impacts on the residents of Hala.

III. RESEARCH METHODOLOGY

This chapter aims to provide the materials and methods used for the collection of data and analyzing the data to provide overall image of the research. The methodology adopted will be fulfilled to achieve research objectives. As this research is a case study, the methodology applied was more on gathering information through surveys, questioner, interviews and physical visits. This primary data was then compared with the review which included analysis of building material and its impacts on human behavior. Case study of Hala.

There were mainly three types of methods being used for collecting primary data:

- Collecting primary data through questioners surveys
- Collecting primary data through site visits
- Collecting primary data through interviews conducted from labors of Hala

Case studies are carried out for collecting secondary data.

3.1 Method of Data Analysis

Data collected through questionnaire forms and then examine by using MS Excel software. To analysis the existing conditions of study areas, the analysis of building material and its impacts on human behavior,-case study of Hala. The questionnaires arrange in series and data was put in the MS Excel software to data analyses. It was categorized according to the research question and accurate result of the research was drawn accordingly. For analyzing the data, descriptive statics and correlation method used to summarize the photographs. The data is definite, the frequencies or correlation procedure was used and data is on its scale levels review or description descriptive method used.

III. RESULTS AND DISCUSSIONS

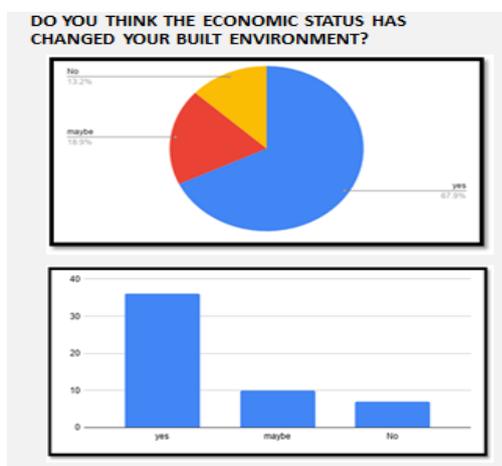


Figure 1: Data analyzed through questionnaires for obtaining results for the economic status that has changed

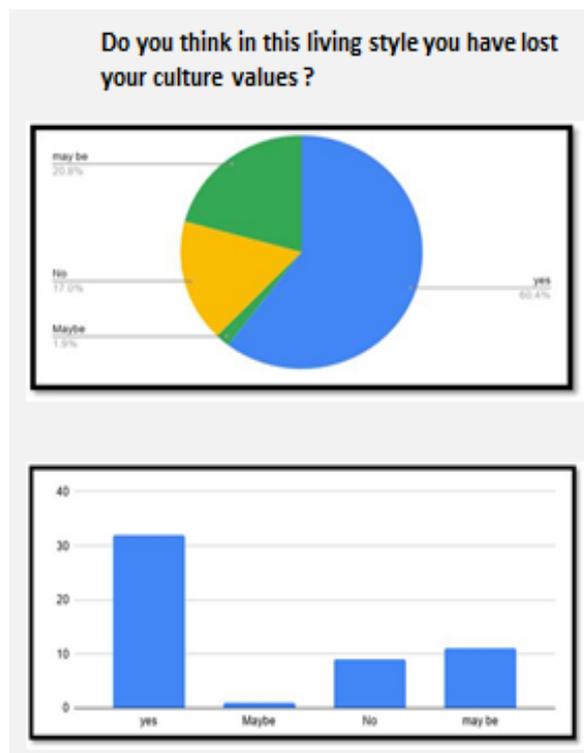


Figure 2: Data analyzed through questionnaires for obtaining results for the living style that have lost culture values

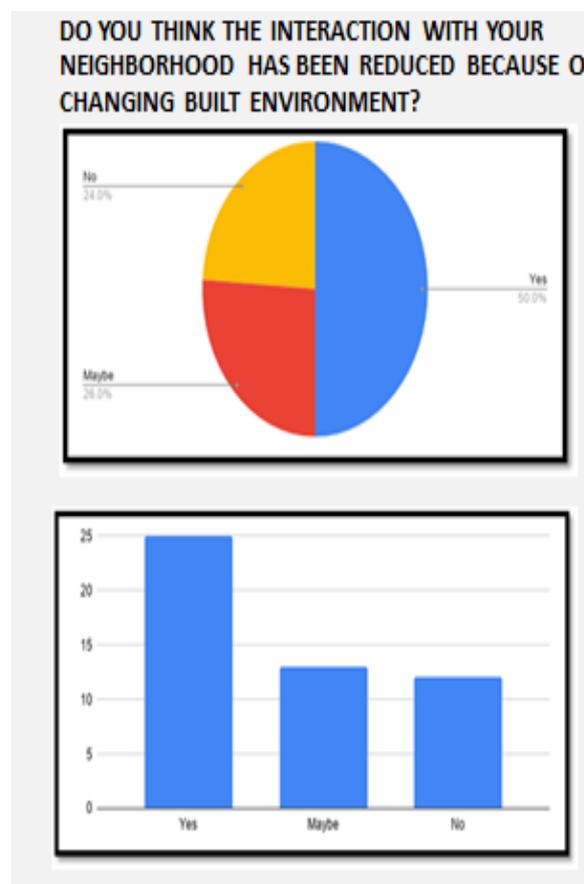


Figure 3: Data analyzed through questionnaires for obtaining results for the interaction with neighborhood

Have you felt unemployment because of this changing skyline?

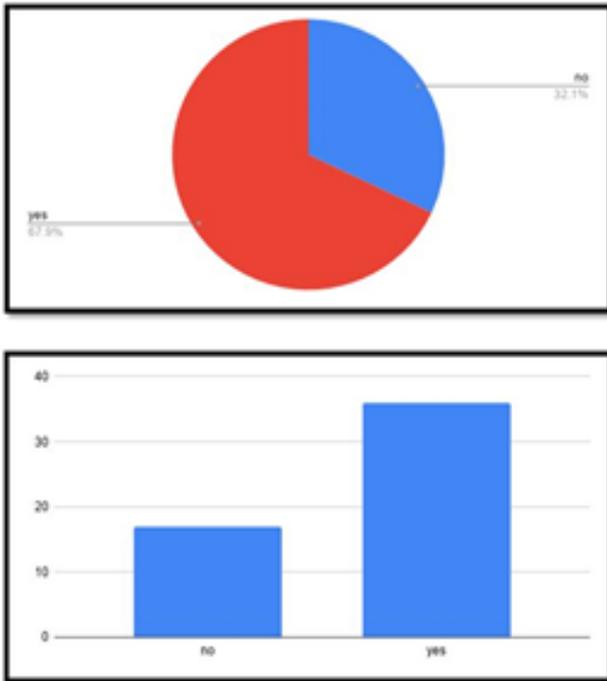


Figure 4: Data analyzed through questionnaires for obtaining results for the unemployment

What do you think about verticality in building that is adopted in today's construction?

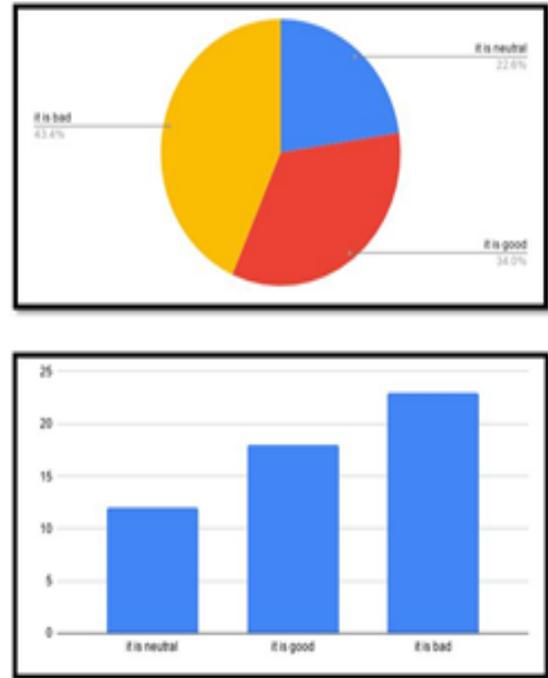


Figure 6: Data analyzed through questionnaires for obtaining results for the verticality that is adopted

Do you think the today's construction materials are harmful for health?

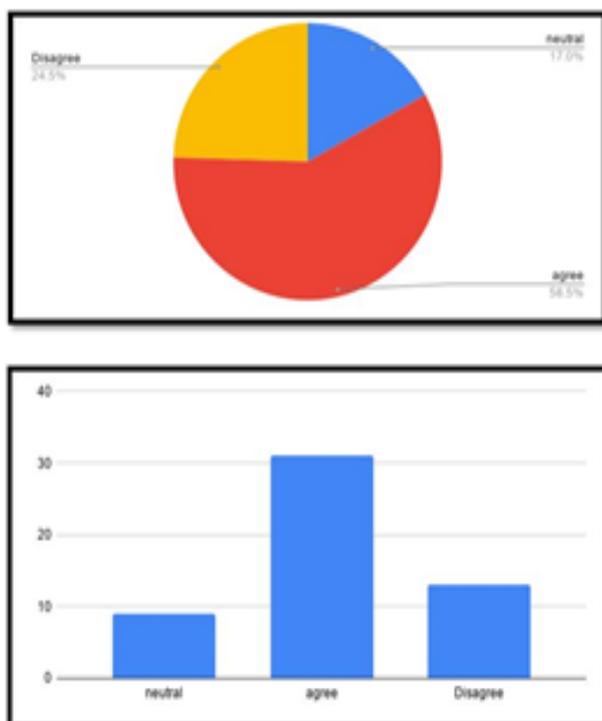


Figure 5: Data analyzed through questionnaires for obtaining results for the today's construction materials

Do you think the brick structures are better than other materials?

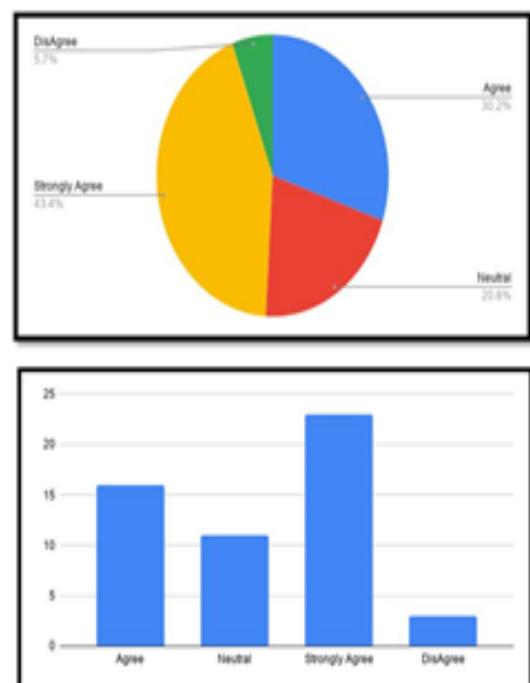


Figure 7: Data analyzed through questionnaires for obtaining results for the brick structure are better

Do you think the courtyard planning was much better than today's congested planning?

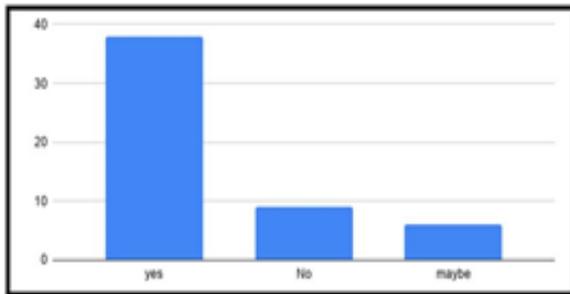
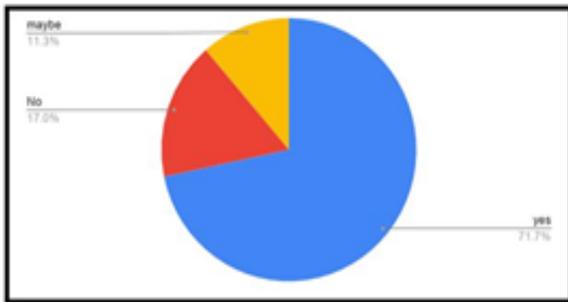


Figure 8: Data analyzed through questionnaires for obtaining results for the courtyard planning and congested planning

Do you think today's structures are more long-lasting than older structure?

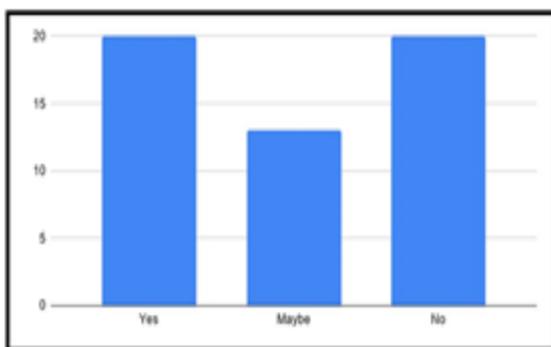
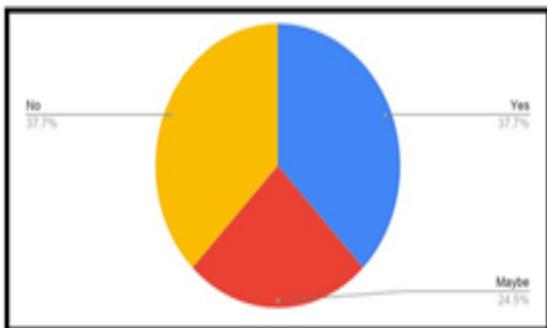


Figure 9: Data analyzed through questionnaires for obtaining results for the today's structures long-lasting

Through the analysis obtained data, it was assessed that the built environment is changed, that the living style has changed the culture values; the ratio of unemployment has been increase because of the built environment. The courtyard planning is better than today's planning, the structures constructed with the brick are human friendly and healthy, the new materials are the harmful for the health, the verticality which is adopted nowadays leave bad impact on the residents of the people.

IV. CONCLUSION

The authors suggest that the buildings should be constructed with the local materials, which is healthy and comfortable for humans. The verticality should not be adopted to protect their cultural values and the interaction between neighborhoods. The building build with local materials are cooler and sustainable, the building keeps the environment healthy and sustainable.

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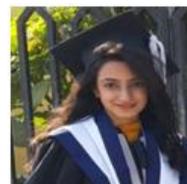
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