

## Qualitative Analysis of Occupant's Satisfaction in Green Buildings

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**Abstract :** The green building movement in India commenced in 2003. Since then, more than 4,300 projects have adopted green building concepts. For last 15 years, the green building movement has grown strong across the country and has resulted in immense tangible and intangible benefits to the stakeholders. Several success stories have demonstrated the tangible benefit experienced in green buildings. However, extensive data interpretation and qualitative analysis are required to report the intangible benefits in green buildings. The emphasis is now shifting to the concept of people-centric design and productivity, health and wellbeing of occupants are gaining importance. This research was part of World Green Building Council's initiative on 'Better Places for People' which aims to create a world where buildings support healthier and happier lives. The overarching objective of this study was to understand the perception of users living and working in green buildings. The study was conducted in twenty-five IGBC certified green buildings across India, and a comprehensive questionnaire was designed to capture occupant's perception and experience in the built environment. The entire research focussed on the eight attributes of healthy buildings. The factors considered for the study include thermal comfort, visual comfort, acoustic comfort, ergonomics, greenery, fitness, green transit and sanitation and hygiene. The occupant's perception and experience were analysed to understand their satisfaction level. The macro level findings of the study indicate that green buildings have addressed attributes of healthy buildings to a larger extent. Few important findings of the study focussed on the parameters such as visual comfort, fitness, greenery, etc. The study indicated that occupants give tremendous importance to the attributes such as visual comfort, daylight, fitness, greenery, etc. 89% occupants were comfortable with the visual environment, on account of various lighting element incorporated as part of the design. Tremendous importance to fitness related activities is highlighted by the study. 84% occupants had actively utilised sports and meditation facilities provided in their facility. Further, 88% occupants had access to the ample greenery and felt connected to the natural biodiversity. This study aims to focus on the immense advantages gained by users occupying green buildings. This will empower green building movement to achieve new avenues to design and construct healthy buildings. The study will also support towards implementing human-centric measures and in turn, will go a long way in addressing people welfare and wellbeing in the built environment.

**Keywords :** health and wellbeing, green buildings, Indian green building council, occupant's satisfaction

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