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REVIEWER'S REPORT

Manuscript No.: IJAR-59845

Title: Climate-Responsive Saudi Architectural Design: Multi-Objective Optimisation of Thermal Comfort, Spatial Quality, and Life-Cycle Cost.

Recommendation:

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Id: JPR-394

Reviewer's Comment for Publication.

The manuscript addresses an important and relevant topic in sustainable architectural design by examining the integration of thermal comfort, spatial quality, and life-cycle cost in Saudi buildings. The study provides a systematic integrative review of 30 peer-reviewed studies and presents a well-structured climate-responsive multi-objective design framework (CRMO). The discussion of passive cooling strategies, building envelope performance, shading systems, courtyards, cultural considerations, and optimisation techniques demonstrates good engagement with existing literature. The proposed framework offers an interesting contribution by incorporating spatial quality and cultural requirements alongside energy performance and economic considerations. The four illustrative architectural archetypes further help explain the practical relevance of the proposed approach. The manuscript is logically organised, the research objectives are clearly presented, and the validation protocol provides a useful direction for future research. Overall, the study has academic and practical significance for sustainable building design in Saudi Arabia. Minor revision is recommended, particularly regarding methodological clarification, consistency in the presentation of evidence, and refinement of the framework's practical applicability.