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REVIEWER'S REPORT

Manuscript No.: **IJAR-59749**

Title: An Integrative Design Approach for Adapting Open-Source Medical Devices to Resource-Limited Settings: Design, Local Manufacture and Technical Evaluation of the LAAFI-RESPIR Ventilator in Burkina Faso

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's Name: DR .PRITI GUPTA

Detailed Reviewer's Report

Technical Inconsistency: In Table 5, the respiratory rate is specified as 12–60 breaths/min, whereas the experimental results report an operating range of 12–45 breaths/min. This discrepancy must be clarified and corrected.

Safety and Standards Compliance: The prototype does not currently provide important safety features such as PEEP control, FiO2 adjustment and alarm systems. These limitations should be discussed more prominently, particularly because ventilators are life-support medical devices.

Figures and Tables: All figures, diagrams and tables should be improved for readability. The labels in Figures 4, 5 and 7 should be made clearer. Ensure that all figures and tables are properly cited and discussed in the main text.

References and Formatting: The reference list and in-text citations should be checked carefully for consistency. The manuscript should follow the journal's prescribed formatting and referencing guidelines.

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