

Review Form 3

Journal Name:	Asian Journal of Advanced Research and Reports
Manuscript Number:	Ms_AJARR_127169
Title of the Manuscript:	THERMODYNAMIC ANALYSIS OF SINGLE-STAGE VAPOUR COMPRESSION REFRIGERANTION SYSTEM USING NATURAL REFRIGERANTS
Type of the Article	Original Research Article

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The study is important considering environmental standards regarding the refrigerants used in HVAC systems. The refrigerants considered are a combination of low-pressure and high-pressure. Conventional R134a is not considered. Add graph of saturation pressure vs saturation temperature for selecting the alternative refrigerants.	
Is the title of the article suitable? (If not please suggest an alternative title)	OK, but it may be common. Search the existing title and if possible, change accordingly	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	It is concluded that the four natural refrigerants considered are efficient and suitable to replace the older systems that are currently used in Nigeria. What is the name of the refrigerant in the existing system. Have you considered suitable drop-in or retrofit refrigerant?	
Are subsections and structure of the manuscript appropriate?	OK. Figures 1 to 3 can be drawn in color.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The study is very basic research that to with the theoretical aspects. Experimental observations are different. The conclusions made are very general and obvious.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	No. Latest papers can be added (around 8 to 10)	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Avoid This word which is 15 times mentioned. English needs to improve throughout the manuscript	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Vijay W Bhatkar
Department, University & Country	Savitribai Phule Pune University, India