



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2014_BJAST_11152
Title of the Manuscript:	Preliminary study of an efficient OTEC using a thermal cycle with closed thermodynamic transformations.
Type of the Article	

General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (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)
Compulsory REVISION comments	None. The efficiency calculations & corresponding T-S diagrams are correct. The modelling of thermal engine producing work both during heat absorption & heat rejection is good.	
Minor REVISION comments	i) The reason for choosing hydrogen and helium as working fluid need to be given. ii) What depth of sea is required to have the temp gradient from 300 K to 278 K ? iii) In table no 2 (comparison with Carnot cycle) : The work done values of Carnot cycle have to be given for better understanding. It is presumed that work done values for hydrogen & helium have been calculated from equation no 7. One sample calculation of work done need to be given. iv) It has been mentioned that from same cycle -generation of potable water and running a refrigeration cycle (heat pump) is possible along with power generation. This point need to be elaborated preferably with schematic diagram.	
Optional/General comments	Few lines to be added regarding scaling up of this model. For example the size of cylinders, heat exchangers, pumps etc to make a 10 MW size OTEC based power plant.	

Reviewer Details:

Name:	Avijit Choudhury
Department, University & Country	Accredited Energy Auditor with Bureau of Energy Efficiency, Ministry of Power, Government of India.