



SDI Review Form 1.6

PART 1:

Journal Name:	Physical Review & Research International
Manuscript Number:	MS: 2012 PRRI 2609
Title of the Manuscript:	Biodiesel Production from Tigernut (<i>Cyperus esculentus</i>) Oil and Characterization of its Blend with Petro-diesel

General guideline for Peer Review process is available in this link:

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

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



SDI Review Form 1.6

PART 2: 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)
<u>Compulsory</u> REVISION comments	<p>The authors have put effort to provide solution for alternative fuels' production, but during review the following points emerged:</p> <ul style="list-style-type: none"> • The authors' claim "..... that B10 and B20 had performance results closer to B100, petro-diesel and ASTM standards. Therefore, the blends will be suited to engines not specifically designed for biodiesel use." third last line of abstract, • Flash point, cloud point and pour point cannot provide sufficient properties the biodiesel as fuel for internal combustion engines. • Line-98: ... was repeated several times until all the oil from the meal has been extracted..... technically how many times? • Line-117: a 1 liter airtight biodiesel reactor vessel fitted with thermo-regulator heater/ stirrer. One litre of tigernut oil was measured into the flask and was heated to a temperature of 60 °C. The potassium methoxide was then poured into the flask containing the oil and was immediately covered The Biodiesel reactor, flask, beaker all are of one liter capacity, then where the potesium methoxide was mixed? • Line 145: The odour and 145 clear golden yellow colour of the oil are favourable for biodiesel production. how to justify this statement? • Table 3: Acid value of biodiesel and blends is very high as compared to ASTM standards. It is quite strange that viscosity of biodiesel blends B10 B20 and B30 (4.54, 4.71 and 4.84) is being less than petro-diesel 5.51. 	<p>Corrected</p> <p>Corrected</p> <p>Corrected</p> <p>corrected</p>



SDI Review Form 1.6

	<ul style="list-style-type: none"> Line 191/192: They all also showed high calorific values. What is relevance of this statement? Conclusions: The conclusions are very general statements. Without testing, it cannot be concluded that B10 and B20 are suitable blends, the blends are not matching with ASTM std in Table 3. References: are not in proper format. <p>The biodiesel production and properties testing have been under research worldwide. There is no novelty in this work, simply repetition of the previous work done by many researchers.</p>	corrected
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		