



SDI Review Form 1.6

PART 1:

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2013_BJAST_4242
Title of the Manuscript:	EXPERIMENTAL PRODUCTION OF SUSTAINABLE LIGHTWEIGHT CONCRETE FOR STRUCTURAL USES
Type of the Article	Research paper

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 7 parts. Kindly note that you should use all the parts of this review form.



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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)												
Compulsory REVISION comments	The paper includes very little information; it needs major revision as mentioned in the attached file. In fact, utilization of fly ash in concrete is one of the prime research interests to reach the goal of the sustainable concrete construction in the world. In this aspect, the aim of the research is very good. Consequently, the study will have been a new scientific sobriety in the field sustainable concrete. It is relevant to mention that utilization of fly ash as a cement substitute seems to be economical (can be confirmed by cost analysis). However, partial replacement of fly ash as cement substitute should be meaningful and practical in those regions where fly ash is available. On the other hand, this study only includes two properties, the density and compressive strength. It needs to be included more properties like flexural and elastic modulus of the concrete, etc. Presentation of the paper is not bad. Therefore, the paper can be published after fulfill all corrections as indicated in this report. Please include/rectify the paper according to the technical comments given below.	I can't but to appreciate the professional input of the reviewer. I sincerely agree with all comments pointed out and i had follow it in doing major corrections in the paper accordingly and all areas pointed out and need corrections and other additional information are highlighted with yellow colour as requested.												
Minor REVISION comments	<table border="1"> <tbody> <tr> <td>Title</td><td>-</td><td>The title of the paper not covers its content, need to be changed to lightweight foamed concrete</td></tr> <tr> <td>Abstr act</td><td>14</td><td>N/mm² ; plz use MPa</td></tr> <tr> <td>"</td><td>19</td><td>Kg/m³ rectify as kg/m³, w/c = 0.35 for high-strength structural lightweight concrete and not normal; pls check this with the previous studies.</td></tr> <tr> <td>"</td><td>20</td><td>The conclusion the study it is not clear but</td></tr> </tbody> </table>	Title	-	The title of the paper not covers its content, need to be changed to lightweight foamed concrete	Abstr act	14	N/mm ² ; plz use MPa	"	19	Kg/m ³ rectify as kg/m ³ , w/c = 0.35 for high-strength structural lightweight concrete and not normal; pls check this with the previous studies.	"	20	The conclusion the study it is not clear but	
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		need to mention more clarify.		
	-	Almost covers the full theme of the study, but methodology and strength of the foamed concrete should be included in the abstract.		
Introduction	41	[1] explained that....., plz rectify.....		
"	86	according to [10-13]....., plz give reference at the end of sentence		
"	**	Overall, research needs/significance/ and/or new idea is not clearly presented in the introduction and also need the more information concerning the lightweight foamed concrete based on the aim the study.		
Materials	100	The fly ash used in this study type C but it contain generally low in Lime (CaO) and this not confirming to ASTM C-618, Pls, check the chemical composition of Fly ash		
"	100 - 101	And confirmed to Fine aggregate, need Full stop in at a place.....		
"	125	[18] ; [19-20]; mention name and then give references		
"	130	So..... 'S' should be small letter, and check w/c ?		
"	134	[21] give name and then reference		
"	150	Table 3 Slump 200mm for each, targeted or actual plz mention? How been obtained the same slump? Although the different in		

		materials the mixes.		
	“	159	[22] give name and then reference	
	“	160	[23] give name and then reference	
	Result s and Discus sion	162	“Result discussion” should be results and discussion	
	“	170	Table4: need title of the table and Pls. correct the unit of density (from kg/m to kg/m ³) and the Fig.1.	
	“	-	The discussion the surface saturated dry density should be should be included mention the reference, concerning the results with previous studies.	
	“	171	Compressive strength should be presented by three curing systems, separately.	
	“	177	[24] give name and then reference	
	“	180	Mpa should be replaced by MPa throughout in the paper	
	“	192	[25] give name and then reference	
	“	**	Foam concrete was produced for structural uses, but minimum strength requirement of concrete for the structural uses is absent.	
	Concl usion		Good, but need information more clarify to the results.	
Optional/General comments				