



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	2015_BJAST_18348
Title of the Manuscript:	Global Optimisation of Gasoline Pool Blending Using Constraint Partitioning
Type of the Article	Original Research 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>)



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PART 1: Review Comments

	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>
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	The authors studied 18 raw-materials such as naphta, SRG, different gasoline fractions without alkilation products. Present work presented a new approach for solving a global optimum for blending of gasoline pool by constraint partitioning. The article considered other methods for blending of gasoline pool which use dependence of various properties of gasoline fractions , also. The presented method are realistic for a minute and for short - term recipe optimisation.	The refinery in the case study does not have an alkylation unit and as such alkylate has to be externally procured. This is part of the problem. The amount of alkylate required to satisfy product demand for the gasolines at the prevailing market price is a degree of freedom and together with butane and ethanol additives form the optimisation variables.