



SDI Review Form 1.6

Journal Name:	Asian Journal of Physical and Chemical Sciences
Manuscript Number:	Ms_AJOPACS_43892
Title of the Manuscript:	Adsorption of Methylene Blue from Aqueous Solution using Locust Bean Gum graft Copolymer-Bentonite Composite.
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 (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	<ul style="list-style-type: none"> • abbreviations that are defined in the abstract will need to be defined again at first use in the main text. After it was abbreviated on first use in the introduction, do not abbreviate it again thereafter. MB was not defined in the introduction. • Any reason why the LBG was chosen? Please include some background about it in the introduction. • Figure 5 caption should be informative. Include the adsorbent dosage, dye concentration and pH • ref 24 is not correct. S. Lagergren. About the theory of so called adsorption of soluble substances, Kungliga Svenska Vetenskapsakademiens Handlingar, 24, (1898) 1-39. or K. Sven. Vetenskapsakad. Handl., 24 (1898) 1-39. • Please provide scientific explanation of what it means if adsorption data is best fitted with pseudo 2nd order. • What is the unit of the parameter K_f of Freundlich? • Authors should include the effect of pH on the adsorption of dye. Effect of pH is one of the most important parameters to study. Also please include the pH point of zero charge of the adsorbents • Please compare q_{max} of Langmuir and K_F of freundlich with those reported in the literature. • Please recheck calculation of LBG-g-poly DADMAC-coAMPS)/BNT for Langmuir (Fig 9). • Section 3.3.3. Methylene blue is sensitive to extreme pH. Don't you think pH 1.2 and 13 caused degradation and change of colour of methylene Blue? 	<ul style="list-style-type: none"> • The use of abbreviation has been reviewed through out the text. • The background of LBG has been captured in introduction part • The observation was noted and address • The reference No. 24 have been corrected. • The pseudo second order adsorption explanation have been improved • The unit of k_f is mg/g • For the pH effect and the pH point of zero order, the authors think its not necessary as the adsorbent is amphoteric in nature. And the point of zero charge is the pH at which the surface of your adsorbent is globally neutral. • The comparison have been included in the text • The Langmuir calculation was rechecked • The pH 1.2 and 13.0 was used as stripping media for the removal of the adsorbed MB from the adsorbents. Hence, it is not expected to affect the results.
Minor REVISION comments		
Optional/General comments		