



**SDI Review Form 1.6**

Journal Name:	<a href="#">Physical Science International Journal</a>
Manuscript Number:	2014_PSIJ_12624
Title of the Manuscript:	Dry Sliding Wear Behaviour of Plasma Sprayed Fly Ash Added Red Mud Coatings
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)
<b>Compulsory</b> REVISION comments	<ol style="list-style-type: none"> <li>1. Improve language and formatting</li> <li>2. There are many irrelevant statements (ex: line 110-The versatility of the.... to study; line 153- Volume of interest...of porosity; etc)</li> <li>3. Line 128-EDS is not for micro structural analysis, it is for chemical analysis.</li> <li>4. Line 225-Mass loss in newton-generally mass loss is in grams. This has continued in estimation of wear loss. This is repeated a few times.</li> <li>5. Line 225- wear rate after 6 minutes of sliding is given as 0.13. In figure 5a-corresponding number is 0.25</li> <li>6. Except for wear studies, samples with 50-50 ratio are not used. Why? At least porosity measurements could have been done.</li> <li>7. In wear study conclusions many things are related to gradient in microstructures. Question is whether all regions are exposed to the counter disc. If so, the coating is completely worn out after 30 minutes of study. The argument is not clear.</li> <li>8. The paper presents mostly data, without correlation between them.</li> <li>9. Conclusion is mostly directions for future work given without sound logic or experimental support.</li> </ol>	<ol style="list-style-type: none"> <li>1. Language has been given importance and checked repeatedly. Suitable formatting is done.</li> <li>2. A change has been done.</li> <li>3. Off course not. Micro structural images are captured by SEM (Scanning electron microscope). Elemental analysis is done using EDS (energy dispersive spectroscopy) for pure red mud powder and presented in Figure 2.</li> <li>4. In this paper Mass loss is expressed in N. And the wear rate as N/sliding distance (L).</li> <li>5. The 2<sup>nd</sup> point in the graph represents the wear value for 6 minute. This value is 0.13 as Wear plot starts at 3 minute. Hope it make sense.</li> <li>6. We respect the suggestion; here we have ignored the porosity measurement for 50/50 ratio. All other ratio values are included.</li> <li>7. It is an important question; we have conducted the experiment up to 30 minute. Yes all regions are exposed to counter surface. The wear may be further extended.</li> </ol>



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		<p>8. We have done experimental data collection and its analysis. For correlating, we are working on it now to develop mathematical model equation.</p> <p>9. The final theme is Red Mud; the waste generated from alumina plant is eminently coat able on metal substrates by employing thermal plasma spraying technique with excellent wear resistance. The conclusion contains both experimental logic and future work.</p>
<b><u>Minor</u></b> REVISION comments		
<b><u>Optional/General</u></b> comments		