



SDI Review Form 1.6

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_41903
Title of the Manuscript:	COMPARATIVE ANALYSIS OF AUTOGENOUS AND MEDIA ASSISTED GRINDABILITY OF A COPPER AND MANGANESE ORES
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>)

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	Additional information is required in the material and methods section for a reader to appreciate possible relationships between the properties of manganese and copper ores chosen for this study and grindability. For example, mineralogical (specified as just chalcopryrite in case of the copper ore sample), chemical (chemical composition) and granulometric properties of the ore samples under study should be reviewed in the introductory materials section. It will help to know the mineralogy of gangue minerals to better evaluate mechanical parameters of the manganese and copper ores used in the current study.	Texturally, both ores are fine-grained and the lumps appeared compact and massive with no visible cleavage. The manganese ore is dark grey and contains oxides of iron and manganese as major minerals with over 50% manganese oxides (MnO and Mn₂O₃) and about 20% iron oxide as hematite (Fe₂O₃). Magnesium oxide (MgO), silica (SiO₂), and calcium oxide (CaO) are also present at over 10%, 7% and 3% respectively. The copper ore is described as predominantly chalcopryrite (CuFeS₂) with small amount of other copper minerals and free pyrite; traces of sphalerite and galena. The ore has lustrous dull-yellow appearance and, although no sign of cleavage is seen on physical examination, the ore appeared stained with some micaceous minerals.
Minor REVISION comments		
Optional/General comments		