SDI Review Form 1.6

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_44221**
Title of the Manuscript:	**Double-Balanced Mixer for RF Applications**
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	1. **ABSTRACT:** a) **full meaning of an accronymshould come before the acronym so the right expression should be** Radio Frequency Integrated Circuit (RFIC) design b) Frist state the full meaning of RF before using the acronym c) CMOS (complementary metal-oxide semiconductor) process. Refer to a) 2. **INTRODUCTION** a) RF IC (radio 15 frequency integrated circuit): refer to comment 1a) b) WiMAX (worldwide interoperability for microwave access) should be WiMAX (Worldwide Interoperability for Microwave Access). c) Fig. 1 should be re-drawn so that it will be more clearer d) since figure 1 is at the center, the figure caption should also be at the center e) intermediate frequency (IF) should be Intermediate Frequency (IF) f) local oscillator (LO) should be Local Oscillator (LO). **3. LITERATURE REVIEW** **a)** analog-to35 digital converter (ADC) and digital signal processing (DSP) should be Analog-to-Digital Converter (ADC) and Digital Signal Processing (DSP) **b)** low-pass filter (LPF) should be Low-Pass Filter (LPF) **c)** since figure 2 is at the center, the figure caption should also be at the center **d)** equations should be well arranged as it looks like equation 1 is missing **e)** use equation editor to re-write equation 2. You will observe that equation 3 is more clearer **f) Most importantly, the meanings of the variables in equations 1-3 is missing. This is very germane and must be included in your report. Variables like V_{IF}, V_{RF} , P_{IF} , P_{RF} etc** **g) Also, your literature review is not complete without a review of related works. I expect you to revise what other researchers have done as regards your problem area in order to establish the gap you have identified** **h) Refer to 3c as regards fig 3** **4. Let section 3 reflect that it is your methodology, include the header DESIGN AND IMPLEMENTATION before title ACTUAL MIXER DESIGN** **5. Also your design section should be separated from your results. Dedicate a separate section for your results** **6.**	1. Done 2. Done 3. Done 4. Done 5. Done, reconstructed Chapter 4 – Results and Analysis

Minor REVISION comments		
Optional/General comments		

PART 2:

	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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	