Review Form 3

Journal Name:	**Journal of Pharmaceutical Research International**
Manuscript Number:	**Ms_JPRI_122427**
Title of the Manuscript:	**The Impact of Emerging Technologies on Pharmaceutical Process Design and Optimization in Africa: A Review**
Type of the Article	**Review Article**

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PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This abstract highlights a critical and timely discussion on the trans-formative role of emerging digital technologies in Africa's pharmaceutical industry. The importance of this work lies in its focus on the intersection of innovation and regional development, addressing how technologies like AI, ML, IoT, and robotics can revolutionize pharmaceutical processes. I like the balanced perspective of this manuscript, where it not only showcases the benefits of improved efficiency, accuracy, and waste reduction but also acknowledges the significant challenges posed by infrastructure and regulatory barriers. This approach makes the review highly relevant to the scientific community, offering insights into both the opportunities and obstacles that must be navigated for technological advancement in Africa's pharmaceutical sector.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	Yes the Title suited with the article context:- **"The Impact of Emerging Technologies on Pharmaceutical Process Design and Optimization in Africa: A Review"**	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	**YES** The abstract is comprehensive enough to provide a brief overview of the book chapter. As per my suggestion, the abstract should be under the 300–350 word limit. It should summarize the points like the aim and objectives of the review manuscript, the methodology or methods that are adopted in the review manuscript, the discussion, and the conclusion of the review manuscript in a single paragraph. (Rather than to do not write or mention anything on it as a structured abstract)	
Are subsections and structure of the manuscript appropriate?	**YES** (The subsections and structure of the manuscript is appropriate) Case studies	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript is scientifically robust and technically sound because :- **1.** It presents a well-structured analysis of the impact of emerging digital technologies on pharmaceutical processes within Africa. **2.** The review is grounded in recent advancements providing a comprehensive understanding of how technologies like AI, ML, IoT, and Robotics are transforming the industry. **3.** The manuscript's balanced approach in highlighting both the benefits and challenges associated with technology adoption ensures a nuanced perspective, enhancing its credibility. **4.** The strategic recommendations for successful integration underscore the manuscript's practical relevance and scientific correctness.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	Total References are 35 which is to be less for a review manuscript , If possible, I has to be increase up to 80-100. (To summaries more factual data).	

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	Following corrections need to be implement in this review manuscript:- 1. The language/English quality of the article suitable for scholarly communications but author must revised the various grammatical errors throughout the whole manuscript. 2. There is missing of a Graphical abstract (to summarize whole review manuscript in a diagrammatically). 3. There is No Table and Diagram or graph in manuscript to improve the authenticity of this review manuscript. 4. Factual Data must be required to show how much % work efficiency increased after using advance AI,ML/IOT system . 5. Need to add a demographic data to prove **The Impact of Emerging Technologies on Pharmaceutical Process Design and Optimization in Africa.** 6. Author needs to add at least 5 different case studies to justify the the manuscript title. 7. The author should increase the number of references, which is currently 35, as this indicates that the author has not conducted a rigorous literature review. Increasing the references to around 100 would improve the quality of the paper and enhance its content accordingly."	
Optional/General comments	Other than the above, there are some technical corrections required, and the author is to be requested to please ensure before their final submission, like: **1.** For the entire manuscript, please ensure that the font size is 12 and Times of Roman. **2.** Please make sure that the whole manuscript text or paragraphs are justified. **3.** The author suggested that you please follow the heading criteria in the whole manuscript, with H_1, H_2, and H3 patterns. **4.** Please ensure that the total word count is below the standard limit, as per the editor's suggested guidelines. Please make sure that the manuscript is set or adjusted according to the projected chapter outline.	

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)*	

Reviewer Details:

Name:	**Deepak Chandra Joshi**
Department, University & Country	**Central University, India**