Review Form 3

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_123462**
Title of the Manuscript:	**Evaluation of Corrosion Performance of LDX 2101 and UNS S32205 in Flexible Pipeline Applications: A Comparative Study**
Type of the Article	**Original Research 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.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
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.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**		
Optional/General comments	Peer Review Comments on "Manuscript Number:2024_JERR_123462" Manuscript Title: Evaluation of Corrosion Performance of LDX 2101 and UNS S32205 in Flexible Pipeline Applications: A Comparative Study Manuscript Number: Ms_JERR_123462 The authors reported a significant work of evaluating the Corrosion performance of LDX 2101 and UNS S32205 to be used in flexible pipelines. This was done by conducting a comparative analysis of the mechanical strength and corrosion resistance of lean duplex stainless steel (LDX 2101) and standard duplex stainless steel (UNS S32205) with the help of LPR corrosion test. The manuscript was well written and organized, however, there existed several issues that should be revised. 1. Grammatical mistakes mainly in the Abstract and Results & Discussion part of the paper. 2. "Corrosion" is repeated twice in the keywords. 3. Why only one Electrochemical test (LPR) is used for comparison? Other methods like Electrochemical Impedance Spectroscopy and Potentiodynamic polarization should also have been used as corrosion test. 4. The authors did not give any explanation on the variation of Icorr and Rp values obtained in the LPR test. 5. What is the reason for selecting 3.5M NaCl solutions as the electrolyte?	

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)*	

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