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## REVIEWER'S REPORT

**Manuscript No.: IJAR-59829**

**Title: Digital Transformation of Electrical and Instrumentation Inspection, Testing and Commissioning in Saudi Oil and Gas Projects.**

**Recommendation:**

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

| Rating | Excel. | Good | Fair | Poor |
|---|---|---|---|---|
| Originality | | ✓ | | |
| Techn. Quality | | ✓ | | |
| Clarity | | ✓ | | |
| Significance | | ✓ | | |

**Reviewer Id: JPR-337**

### Reviewer's Comment for Publication.

The manuscript addresses an important and relevant topic concerning the digital transformation of electrical and instrumentation inspection, testing and commissioning in Saudi oil and gas projects. It provides a structured discussion of digital quality records, connected test instruments, calibration traceability, asset information models, digital twins, analytics and operational technology cybersecurity. A major strength is its evidence-centered approach, which clearly distinguishes digital documentation from verified technical acceptance and emphasises the importance of asset identification, measurement integrity, configuration control and authorised approval. The proposed stage-gated commissioning architecture offers practical value for project owners, contractors and operating organisations. The review also appropriately acknowledges the limited availability of direct field evidence from Saudi E&I commissioning projects and avoids presenting conceptual benefits as established outcomes. The research gaps and proposed evaluation indicators further contribute to the academic and practical relevance of the manuscript. Minor revisions are required to address language and grammatical inconsistencies, improve technical terminology and ensure consistency in reference formatting and presentation. Overall, the manuscript makes a useful conceptual contribution to digital commissioning assurance and is suitable for publication after minor revision.