



The Shell Petroleum Development Company of Nigeria Ltd.

DIGITALIZATION OF EXCAVATION PLAN APPROVAL PROCESS – CONTINUOUS IMPROVEMENT

BUSINESS CASE & IMPLEMENTATION PLAN

Rev	Date of Issue	Originator	Reviewed	Approved
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1.0 PROBLEM STATEMENT

- Reduce time spent reviewing and approving excavation plans for pipeline construction works.
- Move from e-mail-based process to digital forms.
- Validation of the geotechnical/soil data for approval

2.0 BUSINESS CASE

- Improve standardization, replication, and reduce approval cycle.

3.0 OPPORTUNITY

Excavation plans are essential for pipeline construction, repair and remediation works. Due to the frequency of these works, a large volume of excavation plans are generated within short intervals, the review and approval of which consumes manhours and involves back and forth emails.

There is an opportunity to digitize the review and approval process, which will make it more efficient & seamless. This would reduce the time spent on the review and approval process, freeing up resources for other tasks.

The digitization of the approval process would also enable collation of feedback on the existing soil types at the project work sites for referencing, replication & validation when future activities are performed at the same location.

The digitization of the approval process would also make it easier to track the status of plans. This would help to ensure that plans are reviewed and approved in a timely manner.

4.0 SCOPE

Digitalization of the excavation plan approval process

5.0 DESIRED OUTCOMES

- Improve standardization, replication, QA/QC and reduce time for approval from 2-3days to 1day.
- Simplification and reduce the email space usage and mitigate constraints on the email system
- Provide an auditable & traceable platform for the document approval, geotechnical trending & validation.

6.0 IMPLEMENTATION PLAN

S/N	Activity	Timeline
1	Idealization	July – August 2023
2	Digitalization	August -Sept 2023
3	Deployment	Oct 2023

7.0 TEAM

LEAD: Asilonu Collins

MEMBERS: Tella Omotayo, Ehizogie Abure, Malaolu Abayomi, Akodudu Yinka, Nnabugwu Tochukwu, Obeneme Wilson (DIY Coach)