



United States Energy Association
**Questions and Answers: Feasibility Study and Design for the extension of 18” Geothermal
Steam Pipeline for Oserian Development Company**
UPDATED August 11, 2022

- 1. What is the total length of the 18” steam pipeline extension and do you have a potential routing map?**
 - a. The total length of the 18” steam pipeline extension is approximately 2.2Km. **A potential routing map is available. Oserian Development Company will provide a routing map and other planning documents during the kickoff meeting to the selected bidder.**
- 2. Scope does not mention valves – should the study include installation of isolation valves or control valves for the pipe extension (does ODC want to be able to isolate the new line leading to OW 306)?**
 - a. Yes, ODC should be able to isolate the line and therefore the design should include isolation valves. Ideally, each plant should be able to run independently when the other plant is shut down for maintenance.
- 3. Does the existing pipeline at OW 202 and OW 306 have pressure relief system or relief valves?**
 - a. Yes, steam venting system is available at both 202 and 306 Power plants.
- 4. Scope does not mention stress analysis for OW-306 and OW-202 piping and turbine nozzles. Is there data available on allowable nozzle loading on exiting turbines?**
 - a. Stress analysis should be covered in the design. The separation pressure is about 5.5barg but the line was designed for 10barg.
- 5. Is there a Geotech report for the pipe route? A Geotech study or ODC assumptions will need to be provided to allow for structural pier design and also pipe stress. The Rift Valley in the Olkaria region has notoriously bad soil conditions.**
 - a. A Geotech report has not yet been completed.
- 6. Is there an ODC requirement for condensate removal? (ground discharge or separate collection system). What is the current practice for discharging pipeline steam traps?**
 - a. Yes, Condensate drain points should be installed along the line. The design should include steam traps/condensate drain points.
- 7. Are P&IDs are available and can be provided for both plants and resource gathering system?**
 - a. Yes, PID drawings for both plants are available.
- 8. Is there a requirement to install a steam flow meter on the new pipeline to OW 306?**
 - a. Yes, at OW 306.
- 9. Are there any parcel/land use restrictions/requirements for the route between OW 202 and OW 306?**
 - a. No, Oserian Development Company owns the land.
- 10. The RFP does not mention any requirements related to Contractor bidding requirements, contract requirements or bidding support. Should we assume that the scope is limited to the pipe design, technical specifications and engineered cost estimate?**
 - a. The scope should cover pipe design, technical specs, and cost estimate.
- 11. The budget template wasn't attached to the RFP. Is there a specific template that the USEA would like for the bidder to use?**
 - a. There is no specific budget template, however, the budget should clearly indicate:
 - i. Hourly rates and proposed level of effort of personnel proposed for the project
 - ii. Anticipated expenses broken out into the following line items:
 - iii. Personnel (labor)
 - iv. Fringe Benefits
 - v. Travel
 - vi. Equipment

- vii. Supplies
- viii. Contractual
- ix. Construction
- x. Other Direct Costs
- xi. Indirect Costs
- xii. Total Costs

12. Will the USEA provide a Geotechnical report for the proposed routing of the extension line?

- a. A geotechnical report has not yet been completed.

13. If the designer needs to hire local companies for surveys and or geotech., what information is required for their services/company as a part of this proposal? Do surveyors and geotech count against the "partnerships of maximum two organizations" under this section?

- a. Proposed subcontractor information and costs should be included in the technical and financial proposal. All subcontracted organizations will be considered part of a partnership for the proposal.

14. For potential Kenyan subcontractors used for services such as surveys or geotechnical report, are they required to fulfill the budget breakdown requirements such as salary expectations and hour rates or can it be a lump sum line item to be identified in the overall budget? Will they also be required to submit a USAID contractor employee biographical data sheet?

- a. Costs for subcontractors that are part of a bidder's team may be listed as a lump sum in the "Contractual" line item. However, the proposal should also detail their expected role and level of effort to justify the cost. Biodata sheets are not required.

15. If using Kenyan surveyors and/or geotech., does this deviate from the requirements of the RFP?

- a. The inclusion of Kenyan companies in a proposed partnership is allowable under and consistent with the requirements of this RFP.