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RW10412286/24 - APPOINTMENT OF ENGINEERING FIRM/CONSULTANT FOR CONDUCTING A FEASIBILITY STUDY AND THE DETAILED ENGINEERING DESIGN OF THE MIDVAAL REGIONAL WASTEWATER TREATMENT WORKS AT RAND WATER FOR A PERIOD OF 5 YEARS*.

The concerns being addressed herein relates to the bid Number RW10412286/24: and Rand Water's in its response brings to the attention of all bidders that, the intention for this bid invitation is for the Engineering consultants to conduct a comprehensive feasibility study, all related investigations and detailed engineering designs as it relates to the scope provided.

- *The bid is to prepare a feasibility study for a "new" WWTW with zero detail about the influent requirements (flows, etc) and is expected to be priced as a lump,*

  - Part of this bid's requirements is for the engineering consultant to conduct a feasibility study wherein some of the information required, including but not limited to, the influent requirements, dry weather flows etc, will be obtained.
  - It is therefore expected that the information attained from the feasibility study would then be utilised by an experienced engineer/consultant to Design the required full-scale wastewater treatment plant.
  - In this bid, it is expected that the experienced engineer/consultant will provide the resources to be utilised during the feasibility study together with the hourly rate of each of the resources planned to be used and the time (activity duration) it will take to complete the feasibility study. This should assist the experienced engineer/ consultant to determine the overall cost of the feasibility study.

- *All survey, Geotech, Environmental, WULA and any "other specialist studies" etc are to be tendered lump sums! With the outcome of an EI being unknown at this stage, bidders are required to price all-inclusive of any foreseeable specialist study!*

  - The expectation from Rand Water is for an **experienced** engineer/ consultant to provide pricing for all surveys, all authorisations, Geotechnical studies, WULA and all "other specialist studies". Using the activity schedule provided as a guideline and relying on their experience, the experienced engineer/consultant should provide the number of the resources planned to be utilised for each of the surveys, environmental authorizations, Geotech and other specialists' studies together with the hourly rate per resource and the time (activity duration) it will take to complete

each task. This will assist in determining the overall cost of the surveys and authorisations etc.

- *All servitude valuations, services detection, encroachments, wayleave submissions, etc, etc, etc are to be tendered as lump sums!! No site plan has been provided and bidders have no idea what this could entail. In addition, with no decision on what the final technology/process selected would be, it would not be possible to determine the final area requirements for this site.*
  - Based on the information provided in this bid, Rand Water's expectation is that the experienced consultant would provide appropriate and required resources planned to conduct all servitude valuations, service detection and wayleave applications. This will be provided with the hourly rates of each resource and the time (activity duration) it will take to complete each activity to determine the overall cost.
  - Rand Water has left it to the Engineer/ Consultant to propose and provide price for technology/process to be utilised

- *Expecting bidders to respond to an invitation for a feasibility study, preliminary and detailed design of a WWTW of unknown size priced as a fixed price lump sum is simply opening up the process to under-pricing with excessive qualifications or over pricing to factor in risk of the unknown.*
  - It is expected by Rand Water that an experienced Engineer/Consultant having been provided with the general location (Midvaal Local Municipality) of where the WWTW will be constructed, the experienced Engineer/Consultant to have the capacity to use the statistical information to calculate/deduce the estimated size of the works using the population of Midvaal Local Municipality.

- *Detailed Geotech investigation including dolomitic studies are expected to be conducted and priced as a lump sum in the absence of such a final site location or the need for such a dolomitic study!*
  - Having been provided the location of the WWTW (Midvaal Local Municipality), Rand Water expects an experienced Engineer/Consultant to provide experienced resources to complete the Geotechnical investigations. These resources should be provided together with their hourly rates in order to determine the costs of this activity.

- *3D modelling requirements are required; however, this is hugely onerous and an expensive investment for companies who do not have such facilities especially when considering that bidders have no idea of the scale or possible complexity of the project.*
  - 3D modelling is part of Detailed Design deliverables and the requirement for this project.

- *Pipeline design is required, however there is no indication how long the pipeline line is. In addition, there is a requirement for a CP analysis and design suggesting it could be a steel line, also expected to be priced as a lump sum.*

- Upon completion of the feasibility study, the bidder should have all the information pertaining to the optimal location of the plant. Pursuant to this, the bidder is expected to have engagements with industry within the locality for the appetite of processed water, as well as the nearest Rand Water infrastructure for tie-in on potable water. It is on this basis that the bidder would be required to have the requisite information that inform pipe lengths (including the possible/optimal routes) during the completion of the full design which should include pipeline protection in the form of CP, if the material of construction of the pipeline is steel.
- Rand Water expects that an experienced Engineer/Consultant having been provided with information that the new WWTW will service Midvaal Local Municipality population, the experienced Engineer/Consultant would be able to estimate the required piping network.

- *Penalties for non-delivery are huge and appear to have been extracted from a construction contract with the project values appearing to more related to that of delays in the execution of the construction works and not that of a typical fee basis for a professional service provider. See Penalty Table on page 43 "RW10412286-Tender Document"*
  - Design penalties (Drawings and design packs) are included in the penalty table as delay damages should the Engineers/ Consultants fail to achieve their own proposed timelines for the various sectional completion of the prescribed activities.
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