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PROC-60-21- PSM-PJ/2021/7	مَدِينَةُ مَكَّةَ :
29 جُمَادِي 1443 2021 مَدِينَةُ مَكَّةَ 14:00 رَمَدَانِ	مَدِينَةُ مَكَّةَ :
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INFORMATION TO BIDDERS (ITB) FOR GEOTECHNICAL SURVEY AND EIA REPORT

Public Service Media invites sealed tenders from eligible bidders for "Geotechnical Survey, and EIA of Th. Dhiyamigili PSM DTTB Site.

Scope of Service

The scope of work under this ITB consists of compiling a Geo technical survey & investigation report and an EIA report. These are 2 separate components. EIA report is only applicable depending on the Geo technical survey & investigation report. As such, the consultant is asked to quote a price for both components separately & EIA work should only commence if PSM requests for the service.

1. Geo technical Survey

1. Mobilize drilling equipment and technicians.
2. Once Mobilized, to Determine the Exact Mode of Penetration.
3. To Ensure Safety & Coordination with Local Council.
4. This undertaking should be taken by engineers and technicians qualified.
5. To Ensure the works are being carried out in accordance with EPA regulations & standard.
6. Drill at least 2 Boreholes, for geotechnical investigation for 15m dept or up to refusal strata with SPT at every 1.5m or in accordance to EPA guidelines and collect soil samples/washed samples measuring CR&RQD if rock encounters, submit rock samples to lab for testing in core box.
 - a. Field tests.
 - i. Conduct Field Density Test to determine the in-situ dry density and degree of compaction.
 - ii. Any other relevant tests that are commonly required in relation to road pavement design.
 - b. Standard penetration test and soil sampling.
 - i. Detailed bore-logs indicating co-ordinates, reduced levels, ground

water table etc., sub soil profiles along various profiles along various sections indicating borehole no. depth wise, and another lab results etc.

ii. Generalized soil profile of the underlying strata in cross section and longitudinal section wise, shall be furnished based on the bore log in grid pattern.

c. Soil laboratory tests.

i. Results obtained from various tests and other interpretation to evaluate various soil parameters.

ii. Conduct necessary laboratory tests, like Particle Size Distribution and index properties (Liquid Limit, Plastic Limit) tests in accordance with ASHTO test methods to classify the material as per the ASHTO M145.

iii. Determine the laboratory maximum dry density and optimum moisture content.

iv. Conduct the Laboratory CBR test to determine the CBR Ratio at 95% and 98% degree of compaction of material.

v. Any other relevant tests that are commonly required in relation to road pavement design.

d. Catchment Characterization

i. Conduct tests and provide report regarding determination of rates for groundwater infiltration.

ii. Conduct tests and provide report regarding determination soil parameters required for hydraulic and hydrologic design of storm water drainage system.

e. Submission of detailed geotechnical investigation report both printed and Electronic.

f. To include log sheets with SPT values combined, bearing capacity.

g. To include recommendation for type of foundation along with Full Report,

i. To recommend in the report the suitable ground improvements to be adopted for, towers and other structures; the permissible bearing pressure expected at the founding level with allowable settlement, if any; details of soil improvements, if any and any other aspect which will have any bearing on the proposed construction.

ii. To provide the suggested filling materials characteristics/ parameters considering locally available soils and economics.

iii. To provide Ultimate and safe bearing capacity from shear as well as from settlement criteria



2. Environmental Impact Assessment (EIA)

- a. Coordinate with EPA to carry out an EIA as per EPA's regulations.
- b. This work should be carried out by a registered consultant for carrying out EIA with the relevant authority of Maldives.
- c. To ensure the works are being carried out in accordance with EPA regulations and standards.
- d. Undertake the scoping or screening wherever applicable for the assignment
- e. Undertake field data collection survey and develop the EIA report as per the instructions/guidelines of EPA of the Maldives.
- f. Submit draft report to the PSM for review before submitting to EPA for decision,
- g. Submit the final EIA Report to EPA and obtain approval/decision statement.
- h. Undertake submissions and provide any clarifications whereas necessary to the submitted EIA report.
- i. Accommodate any request (within the scope) by PSM for any additional information regarding the submitted EIA report.
- j. Baseline data collection must focus on key issues needing to be examined for the EIA. Consideration of likely monitoring requirements should be borne in mind during survey planning, so that the data collected is suitable for use as a baseline for impacts monitoring.
- k. All available data from previous and present studies, if available should be presented.

Report Submission

1. The Geo technical report should be submitted within 45 calendar days after the signing of the contract or issuance of a purchase order.
2. The EIA should be completed within 45 calendar days after PSM approval.
3. Upon completion of the project the bidder shall submit Detail Project Report, any Diagrams, Drawings in CADD, PDF format along with hardcopy.
4. The bidder will obtain the final EIA approval for PSM & assist with monitoring report.

Eligibility:

1. The Consultancy firm should have been in operation since at least 1 (one) year prior to the date of Bid Submission.
2. The Consultancy firm must have worked on at least 1 (one) project of similar scope within past 5 years.
3. The Consultancy Team shall consist of the following key personnel:



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