C

Ministry of National Planning and Infrastructure
Male', Republic of Maldives

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ދަފްތަ، ދިވެހިރާއްޖެ.

ތަރައްޤީ ކުރަމުންދާ ދިވެހިރާއްޖެ - ތަނަވަސް ދާއިރާ

INFORMATION SHEET

1. Scope of Works

This work involves the design services and Environmental Impact Assessment (EIA) for the below Proposed Causeway Projects

- GDh. Madaveli- Hoadedhoo
- GDh. Faresmaathodaa – Faresmaathodaa Airport

The layouts will be finalized based on the surveys, design inputs, comments from the island councils, and environmental considerations.

2. Deliverables

There are 3 main deliverables for this consultancy work.

a) Field Survey Report
b) Design Concept
c) Detail Design Report
d) Environment Impact Assessment Report

a. Field Survey Report:-

- Bathymetry survey
- Beach profile at existing shoreline
- Shoreline of existing island
- Scaled Aerial photograph of existing islands

  The surveys should be submitted according to the technical specifications provided in Annex 1.

- Explain the method of survey, survey equipment and devices, the dates of surveys, details of control points, condition of the site, information about the surveyors involved.
- Map Sheets: Printed at 1:1000 scale of A3 or larger sheets
- Current, tide and wave measurement for at least a month period to determine water flow in the area.
- Analysis of long term secondary current, tide, and wave data

- Digital copy (In a CD)
    - All filed notes, sketches digitized to PDF format
    - All report in PDF format
    - All raw and processed data in ASCII and PDF format
    - All drawings in AutoCAD and PDF format

b. Design Concept

c. Detail Design Report

- Road section details along the causeway including pavement details
- Culvert details for water flow along the causeway
- Flood Mitigation and/or drainage details for the causeway and surrounding area
- Shore Protection (based on field survey findings) details along the causeway and near the causeway area on both islands
- Cross Sections and Layout to be provided in AutoCAD and PDF Format
- All design calculations should be Annexed to the report.

d. EIA Report (EIA Decision Statement)

- Should be undertaken in according to the Environment Impact Assessment Regulations 2012, the Amendments of the referred regulation and should as well take into consideration all other relevant laws, regulations, procedures and guidelines. Furthermore the report compiled should be in line with the EIA reporting guidelines provided by of EPA. The report shall cater to the EIA requirements of the proponent and also fulfill the specific requirements outlined in the project TOR approved by EPA
- 3 color hard copies for EPA submission
- 1 soft copy in DVD for EPA for submission
- 1 complete soft copy of the EIA report for which DS was issued with all additional information in DVD for MNPI.

e. Dredging and Reclamation Permit

3. Duration

a) The duration for this work shall be from the Date of contract signing to the date of of Decision Statement approval for the EIA by EPA.

The consultant shall adhere to the overall timeline proposed by them.

i. The detailed schedule as per the template should be provided by the consultant within **10 days of Contract Signing**.

b) It is the consultant's responsibility to expedite all processes stated in **'2. Deliverables**. Any delays at the fault of the consultant shall result in Liquidated Damages (LD) as stated in 3 (d).

d) Any delays in failing to meet the timeline will result in LD calculated for a maximum of 15% of the bidder's price. LD shall be calculated as the following

(CP x 0.005 x LD)

CP: Contracted Price

LD: Late Duration

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e) The consultant is required to submit request for extension approval in writing if delays are foreseen. In the case of unapproved time delays extending beyond 07 days, the client reserves the right to terminate the Agreement and execute the remainder of the works with another Consultant. Any additional costs resulting from the termination of this agreement shall be paid by the Consultant and may be deducted from any amounts owed to the Consultant.

f) If the delays are due to issues which could not be influenced by the consultant, in order to negate the LD charges the consultant should act as the following.

i. delays due to EPA, delays due to the client: should submit sufficient paper work evidence to justify the consultant has done the consultant's responsibilities to the best of the consultant's abilities;

ii. Other unforeseen event: the consultant is to request for due to extension approval in writing with justification for these delays.

g) Given that the consultant requests for extensions in writing with justification and evidence, the client shall issue extensions if any in writing.

4. Personnel

a) Given the nature of the project, the team should be representative of experts with qualification and experience in coastal dynamics, social aspects/consultation and marine/ coastal survey

b) The consultant shall propose their team for this project as per the **Technical Team Template** provided in Annex

c) Curriculum Vitae of all team members should be provided.

d) Consultant needs to hold a survey license and the license copy shall be submitted.

e) Senior consultant as well as the focal person needs to be clearly identified. The senior consultant needs to hold a permanent EIA license and his/her EIA license copy shall be submitted.

5. Cost

a) The consultant shall submit their cost proposal for the given work as per the attached financial template. The cost submitted by consultancy firms shall be inclusive of GST.

b) Payments due to the consultant shall be paid promptly within 28 days from the date of receipt of the invoice.

c) The currency of payment is Maldivian Rufiyaa

d) Payments to consultants shall be made as follows;

Submission of Survey Report (hard copy and digital copy)	25%
Submission of Detailed Design Report (hard copy and digital copy)	25%
Approval of EIA and Dredging Permit	50%

6. Submission Requirements

Consultants shall submit all the documents listed under Section 4 (**Personnel) and** Section 5 **(Cost).** Furthermore, the following documents shall be submitted for the bids to be considered sufficiently responsive.

The following documents shall be submitted for the bids to be considered sufficiently responsive.

a) Documents listed under Section 5 (Personnel)
   a. Proposed team as per the annexed **Technical Team Template**
   b. Curriculum Vitae of all team members
   c. EIA license copy of the Senior/ Lead Consultant
   d. Survey license copy of the chief surveyor.
   e. Civil/Coastal/Environmental Engineer who holds minimum Engineering (Civil/Coastal/Environmental) Undergrad certificate.
b) Documents listed under Section 6 (Cost)
   a. Cost proposal as per the annexed **Financial Template**
c) Company registration certificate
d) GST Registration certificate
d) List of similar works completed by the **company/lead consultant**
e) Proposed equipment and methodology of works
f) Company profile

7. Evaluation Criteria

The evaluation will be carried out based on the following criteria. Technical evaluation will be based on the quality and details of the documents submitted.

- Price –60%
- Technical Capacity – 40%
  - Minimum - 10%

The bids shall be submitted LOT wise and cannot bid for an individual Island. If a firm proposes two teams for the Lots, the proposed member or members shall not be common for both the teams. The proposed team could only handle two projects at one time. This includes teams engaged at the Ministry for other projects and ongoing commitments not related to this tender.

- Conditions for technical eligibility:
    - Proposed team should include experts with qualification and experience in similar works
    - A personnel who holds a permanent EIA License
    - A personnel who holds a Survey License

Templates

- Financial Templates

Description	Number of people	Number of trips/ days	Qty	Rate (MVR)	Amount (MVR)
Consultant's Fee					
Laboratory Investigations					
Surveys					
Transport					
Other Logistics					
TOTAL					
GST (0·06%)					
Final Amount (TOTAL+GST)					

- Team Templates (With focal point identified)

No	Discipline	Name	Registration no· for registered EIA/ Survey License	Qualification	Experience	Dedicated components of the report	Contact Details	
							Phone Number	Mail Address
1								
2								
3								

ANNEX 1

Technical Specification

Bathymetry

Natural features of the specified area should be done with a horizontal accuracy of less than 1 meter and vertical accuracy variation less than 0·05m·

Artificial features of the specified area should be done with a horizontal accuracy of less than 1 meter and vertical accuracy variation less than 0·05m·

Levels of specified area should be done at 5m grid with a horizontal accuracy of less than 1m and vertical accuracy less than 0·05m· In case of steep slopes, boulders and pits, additional spots levels should be measures in order to draw accurate contour lines·

Survey should be carried out by using one or more of the following methods·

1· Differential GNSS
2· Total Station
3· Auto or Digital level

Mapping

Projection: UTM zone 43 north for areas north of the equator and UTM zone 43 south for areas south of the equator·

Spheroid: WGS 84

Datum level for Elevation and Depths: MEAN SEA LEVEL (MSL)

1· All the measurements of intended points should be in Easting Northing and Orthometric height coordinates· The coordinate values (horizontal) of the four corners of the map sheet should be labeled·
2· The scale of mapping is 1:1000· The contour interval should be 0·5 meter·
3· Where available a satellite or aerial image of the area should be inserted to background and aligned to the map (Geo-referenced)·
4· The topographic and bathymetric map should be combined and incorporated in the final products (both digital and sheet map)
5· The final map should be created using AutoCAD system·
6· The size of the map sheets should basically be A3· Where A3 is in-appropriate the next larger size should be used·
7· All maps should show all the bench/station marks and where applicable permanent stations with all details,
8· All distances should be in metric unit system and all angles should be in degree minutes seconds·