

TERMS OF REFERENCE

Surveying and EIA Consultancy Services for Developing

L. Gaadhoo

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1. Terms of Reference

TERMS OF REFERENCE

Surveying and EIA Consultancy for Developing L.Gaadhoo

1.1 Background

Agro National Corporation (AgroNat) is a 100% state-owned enterprise established in 2020, with objective to strengthening the agriculture sector of the Maldives.

L.Gaadhoo is leased to AgroNat to be developed as an agricultural island to incorporate contract and commercial level farming activities.

1.2 Objective

The main objective of this TOR is to engage a consultant/consultancy firm to do topographic and bathymetric survey and EIA for developing L.Gaadhoo.

1.3 Site Location and description

The site is located at L.Gaadhoo, approximately 9km from Kadhdhoo Airport. The land area of the island is 70ha approximately, from which 21ha is EPA protected area. Details of the protected area will be shared with this document.



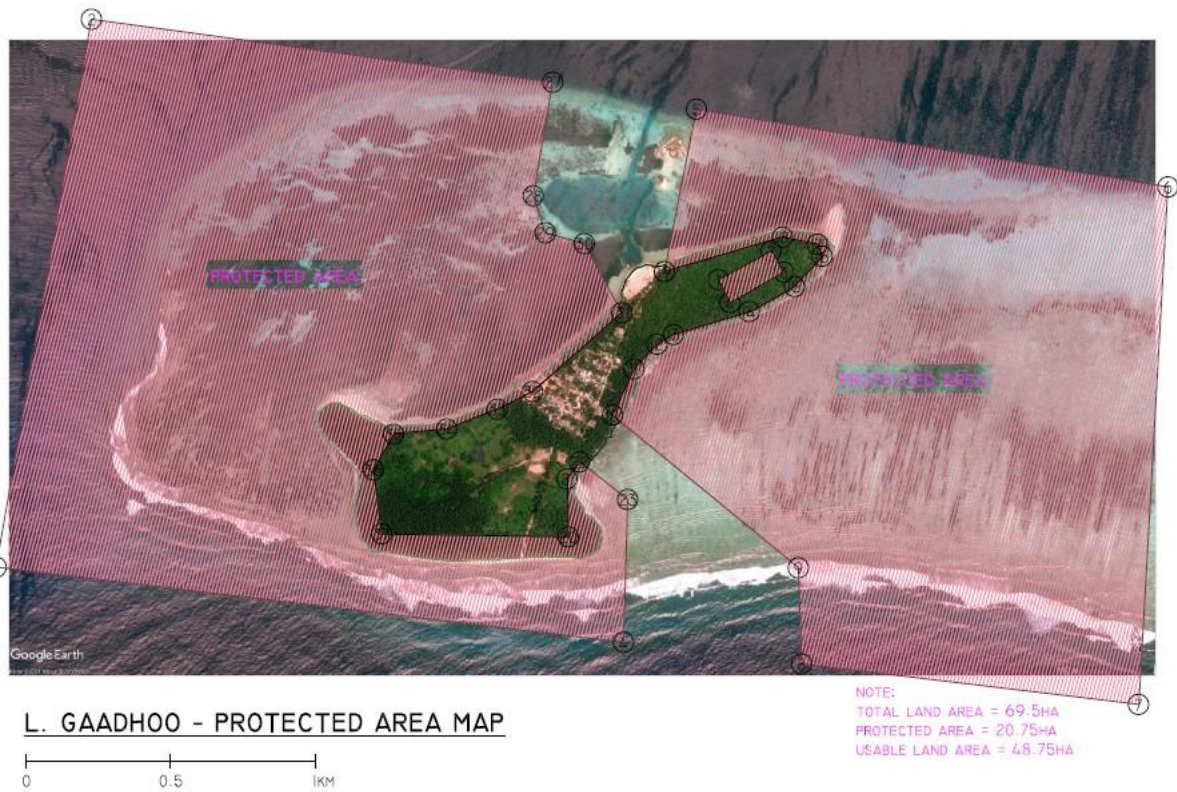
L.Gaadhoo, Project site

1.4 Scope of Services

Phase 1- Topographic and Bathymetric Survey

The topographic and bathymetric surveying scope of services for the consultant under this TOR shall include but are not limited to the following:

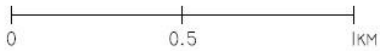
1. To establish a Permanent Survey Marks (PSM) as per Maldives Land and Survey Authority (MLSA) guidelines and register the Permanent Survey Marks with MLSA.
2. To carry out topographic survey of the project site area and prepare topographic map. The survey should include the shoreline (high tide and low tide), vegetation line, existing structures, significant trees, and any other significant features in the area.
3. To establish Permanent Survey Marks (PSM) as per Maldives Land and Survey Authority (MLSA) guidelines for the Protected Area on land. Consultant shall provide on-site survey permanent survey marks for all the protected areas on land as per the coordinates provided by EPA protected area map.



4. The consultant shall prepare complete detailed bathymetric survey of the marked area.



L. GAADHOO - REQUIRED BATHYMETRY SURVEY AREA



Phase 2 – Environment Impact Assessment

The consultant shall undertake the detailed environment impact assessment in accordance with the standard set by the EPA for agriculture related project development. The scope of services for the consultant under this TOR shall include but are not limited to the following:

1. Shall carry out the preliminary environment screening to assess the direct and induced impact due to the project.
2. Shall ensure to document baseline conditions relevant to the project with the objective to establish the benchmarks.
3. Shall assess all the potential significant impacts and identify the mitigative measures to address these impacts adequately.
4. Shall ensure the EIA works are carried out in accordance with EPA regulation and standards.

1.5 Deliverables

The consultant shall submit the following documents and shall compliance with the requirement under the scope of work for the project.

Phase 1- Topographic and Bathymetric Survey

- a. An inception and scoping report detailing the findings of the topographic and bathymetric surveys. This report should include all documentation, raw data, processed data, computed datums, photos and other necessary details.
- b. Complete bathymetric survey map of the marked area at an appropriate scale.
- c. Complete Topographic survey map of the site at an appropriate scale.
- d. Complete survey map with all the EPA protected areas on land

Phase 2 - Environment Impact Assessment

- a. Environment Impact Assessment inception report.
- b. Survey and initial Environment Impact Assessment report
- c. Draft EIA report
- d. EIA decision statement and EIA approval
- e. Permit for project implementation

1.6 Submission format of Deliverables

All deliverables inclusive of all survey and EIA reports and documents should be submitted in digital copy in a USB, as specified below:

- All reports must be submitted pdf format.
- All raw data and processed data must be provided (in .xlsx, dwg format)
- All maps and drawings to be provided in AutoCAD and PDF format.
- All maps and drawings must be provided at 1:1000 scale on A3 or larger sheets.

2 Hard copy of complete final reports should be submitted to the client.

1.7 Competencies of the project team

The consultancy team shall have key personnel with the following minimum qualifications and experiences:

PERSONNEL	QUALIFICATIONS AND EXPERIENCES
1. SURVEYOR	Diploma in surveying with at least five years of work experience in surveying works both field and office works. The Consultant should be a registered surveying practitioner at Maldives Land and Surveying Authority (MLSA), Ministry of Planning, Housing and Infrastructure. Two similar projects within last seven years

2. EIA CONSULTANT	Bachelor’s degree in relevant field (Environmental Engineering, Environmental Science, Environmental Management) with at least five years of work experience in EIA consultancy works both field and office works. Should be a registered EIA consultant at EPA. The Consultant should hold a EIA license. Two similar projects within last seven years
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1.8 Duration

The successful party must be available to commence the services in April 2022. Estimated duration to complete this assignment for each phase is as given below;

Project Phase	Duration
Phase 1 – Topographic and Bathymetric Survey	1 month
Phase 2 – Environment Impact Assessment	1 month

The consultant is required to submit and approve a work schedule within 5 working days of signing the contract. The work schedule should include all the necessary milestones.

1.9 Evaluation

Criteria, sub-criteria, and point system for the evaluation of the Full Technical Proposals:

- | | <u>Points</u> |
|---|---------------|
| i) Specific experience of the Consultant (as a firm) relevant to the Assignment: | [20] |

The experience of the firm in developing ESMPs and ESIA's or surveying for similar projects.

- | | |
|--|-------------|
| (ii) Key Experts' qualifications and competence for the Assignment: | [80] |
|--|-------------|

[Notes to Consultant: each position number corresponds to the same for the Key Experts in Form TECH-6 to be prepared by the Consultant]

<i>a) Position K-1: ESMP Consultant</i>	50
<i>b) Position K-2: Surveyor</i>	30

The number of points to be assigned to each of the above positions shall be determined considering the following three sub-criteria and relevant percentage weights:

1) General qualifications (general education, training, and experience): 30%

2) Adequacy for the Assignment (relevant education, training, experience in the sector/similar assignments) 70%

Total weight: 100%

**Note: A draft proposal providing further details on the evaluation of key experts are included in Annex 3.*

Total points:	[100]
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Selection will be made based on Consultant's Qualification-Bases Selection method.

1.10 Payment

Payment will be in accordance with the schedule specified below;

Description	Allocation
<u>Phase 1- Topographic and Bathymetric Survey</u>	40%
<ul style="list-style-type: none"> An inception and scoping report detailing the findings of the topographic and bathymetric surveys. This report should include all documentation, raw data, processed data, computed datums, photos and details of established permanent survey marks and other necessary details. 	10%
<ul style="list-style-type: none"> Complete Topographic survey map of the site at an appropriate scale. 	10%
<ul style="list-style-type: none"> Complete Bathymetric survey map of the marked area at an appropriate scale. 	20%
<u>Phase 2 - Environment Impact Assessment</u>	60%
<ul style="list-style-type: none"> Environment Impact Assessment inception report. 	10%
<ul style="list-style-type: none"> Survey and initial Environment Impact Assessment report 	10%
<ul style="list-style-type: none"> Draft EIA report 	20%
<ul style="list-style-type: none"> EIA decision statement and EIA approval 	10%
<ul style="list-style-type: none"> Permit for project implementation 	10%

ANNEX 1: Key Expert Evaluation

KEY EXPERT EVALUTION (DRAFT)

#		Percentage	EIA CONSULTANT	SURVEYOR
1	Education			
1.1	Meets Minimum Requirement	20%	<i>Bachelors Degree</i>	<i>Diploma</i>
1.2	Additional Qualifications (for applicable fields)	10%	<i>Postgraduate</i>	<i>Degree or higher</i>
	Sub-Total	30%		
2	Experience			
2.1	Meets Minimum Requirement (evaluated in terms of years of experience)	50%	<i>05 years experience in preparing EIAs and ESIA's</i>	<i>5 years experience in undertaking land / marine based surveys</i>
2.2	Relevant Experience in related field	20%	<i>2 Projects within the last 7 years</i>	
	Sub-Total	70%		
	Grand Total	100%		
	Total Allocated for Key Expert Section	80%	Score will be converted to 80%	

ANNEX 2: CURRICULUM VITAE (CV)

Position Title and No.	{e.g., K-1, TEAM LEADER}
Name of Expert:	{Insert full name}
Date of Birth:	{day/month/year}
Country of Citizenship/Residence	

Education: {List college/university or other specialized education, giving names of educational institutions, dates attended, degree(s)/diploma(s) obtained}

Employment record relevant to the assignment: {Starting with present position, list in reverse order. Please provide dates, name of employing organization, titles of positions held, types of activities performed and location of the assignment, and contact information of previous clients and employing organization(s) who can be contacted for references. Past employment that is not relevant to the assignment does not need to be included.}

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
[e.g., May 2005-present]	[e.g., Ministry of, advisor/consultant to... For references: Tel...../e-mail.....; Mr. Hbbbb, deputy minister]		

Membership in Professional Associations and Publications:

Language Skills (indicate only languages in which you can work): _____

ANNEX 3: Firms Experience

A brief description of the Consultant’s organization and an outline of the recent experience of the Consultant that is most relevant to the assignment. In the case of a joint venture, information on similar assignments shall be provided for each partner. For each assignment, the outline should indicate the names of the Consultant and Sub-consultants who participated, the duration of the assignment, the contract amount (total and, if it was done in a form of a joint venture or a sub-consultancy, the amount paid to the Consultant), and the Consultant’s role/involvement.

1. List only previous similar assignments successfully completed in the past 15 years (from 2005 onwards). Chronologically
2. List only those assignments for which the Consultant was legally contracted by the Client as a company or was one of the joint venture members. Assignments completed by the Consultant’s individual experts working privately or through other consulting firms cannot be claimed as the relevant experience of the Consultant, or that of the Consultant’s partners or sub-consultants, but can be claimed by the Experts themselves in their CVs. Work completion letters should be submitted as supporting evidence for the most relevant assignments. The Consultant should also be prepared to substantiate the claimed experience by presenting copies of any other relevant documents and references, if so, requested by the Client.

Duration	Assignment name/& brief description of main deliverables/outputs	Type of Assignment	Name of Client & Country of Assignment	Approx. Contract value (in US\$ / MVR equivalent)/ Amount paid to your firm	Role on the Assignment
{e.g., Jan.2012–Apr.2013}	{e.g., Concept Design of XXXXXXXX}	Residential	{e.g., Ministry of, country}	{e.g., US\$1 mill/US\$0.5 mill}	{e.g., Lead partner in a JV A&B&C}
{e.g., Jan-May 2018}	{e.g., Detailed Design of XXXXXXXX}	Resort / Hotel	{e.g., municipality of....., country}	{e.g., US\$0.2 mil/US\$0.2 mil}	{e.g., sole Consultant}

Certification:

We, the undersigned, certify that to the best of my knowledge and belief, the information provided in this section correctly describes the firm's qualifications, and our experience. we understand that any misstatement or misrepresentation described herein may lead to disqualification of the firm or dismissal by the Client.

Name of authorized

Signature

Date

(the same who signs the Proposal)