



Ministry of Finance

Ameenee Magu, Male', Republic of Maldives

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حَسْبُكَ بِرِّكَ وَبِرِّكَ  
وَبِرِّكَ، وَبِرِّكَ، وَبِرِّكَ

### CLARIFICATION 1

1 لا تُخْرِجُوا شَيْئًا مِمَّا سَمِعْتُمْ

نمبر سند No:	TES/2023/W-030		
پراجیکٹ Project:	Design and Build of Coastal Protection at Th.Thimara fushi		
نمبر Issued Date	30 <sup>th</sup> April 2023		
نمبر صفحات No. of Pages: -03	BoQ: -00	نمبر ڈرائنگز Drawings: -00	

Please include this sheet when submitting the bid. بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

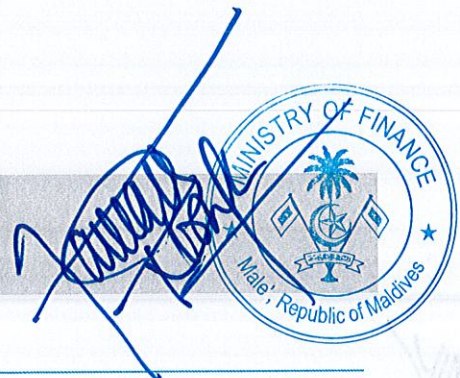
- **Answers for the queries is attached with this Clarification.**

سِرِّ

**Name: Fathimath Rishfa Ahmed**

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**Signature:**







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Contractor Comments	Response/Reference Document
1. BOQ item 3.1 & 3.2 under backfilling and Beach nourishment works, can you identify the borrow area for the 5,000 & 4,000 m <sup>3</sup> of filling material.	During the EIA stage, after surveys and community/council consultations, the contractor can propose potential borrow areas for EPA approval.
2. Specification for the Geotextile is not included in the document.	<p>Minimum weight of the geotextile layer should be 400 GSM and should have 90% UV resistance rating. Also, Design criteria under Employer's requirement is revised as follows.</p> <p><b>DESIGN CRITERIA</b></p> <ol style="list-style-type: none"><li>1. The toe of the coastal protection structure should be sufficiently embedded in the seabed to avoid toe scouring.</li><li>2. Crest height should be maintained to avoid any over topping. The height of the coastal protection structure's crest shall be at least +1.6m above mean sea level.</li><li>3. Stone sizing should be selected based on incoming significant wave height. Armour stone median weight should not be less than 600 Kg.</li><li>4. Geotextile layer should be placed to avoid loss of sand through the boulders.</li><li>5. Layout of the coastal protection structure should be determined giving due concern to the movement of plant and machinery during construction.</li><li>6. Design life of the coastal protection structure should be 30 years.</li><li>7. Unless substantiated with relevant data, soil properties shall be assumed as below.<ol style="list-style-type: none"><li>i. Angle of friction of sand not greater than 32°</li><li>ii. Allowable Bearing capacity of sand not greater than 100 KN/m<sup>2</sup></li></ol></li><li>8. Coral stone should not be used in any part of the coastal protection structures.</li><li>9. If construction of the coastal protection</li></ol>





	structure should affect natural drainage in the areas, provision should be made in the structure to drain flooding created in the area by pluvial & coastal flooding.
<b>3.Is there an as-build or bathymetry available for the proposed project area.</b>	Not available. The contractor has to undertake all the necessary surveys for design and EIA.
<b>4.Is the time of completion of 240 days stated in the Appendix, is including the time for the preparation of the EIA? Normally it takes about 2 to 3 months for the EIA, from the field works, report submission and approval.</b>	The duration of 240 days includes EIA preparation. From our experience the duration is sufficient for the scope of this project.

*[Handwritten signature]*



