

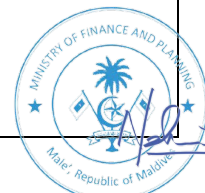
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Please include this sheet when submitting the bid.

Contractor Comment		Response/Reference Document
1. Please confirm the unit of BOQ item 1.3 (Item or Days)	BOQ Item No 1.3	Item or Days, both are acceptable
2. Please confirm the ramp is required or not in this Harbour. (Not mentioned in the BOQ)	BOQ	Ramp is not included
3. Is it the Contractor's responsibility to carry out any post-completion maintenance dredging during the 5-year period, or is this performance condition only related to the design and construction phase? Please confirm that after handover, any future operational dredging shall be carried out by the Employer or Harbour Operator, and is not within the Contractor's scope. If post-completion dredging is to remain the Contractor's responsibility within the Defects Liability Period, please clarify the duration, volume limits, and cost provisions.	Clause "Harbour design layout shall ensure minimum sediment accumulation at the entrance channel and inside the basin to allow for a maintenance dredging period of not less than 5 years" sets a requirement for the design to minimize sedimentation and extend the interval between maintenance dredging.	Design shall be done such that, within 5 years (or longer), no maintenance dredging is required. The contractor is not expected to carry out maintenance dredging for 5 years. However, within the contractual defects liability period, contractor is expected to carry out maintenance dredging if required.
4. We note that the Employer's Requirement specifies a minimum design life of 50 years for all harbour structures, including	We note that the Employer's Requirement specifies a minimum	To be selected as per durability standard of the design code, to fit as per design code.



<p>precast concrete elements exposed to seawater.</p> <p>To ensure clarity, please confirm:</p> <p>Is the 50-year design life specified intended only as a design performance standard in compliance with BS EN 206 / BS 8500, and not an obligation for the Contractor to carry out any post-handover maintenance, repairs, or replacement works beyond the normal Defects Liability Period?</p> <p>Please confirm that any repairs, maintenance or replacement required during the design life but outside the Defects Liability Period will remain the responsibility of the Employer or Harbour Operator.</p> <p>Please reconfirm that the required durability for concrete in tidal/splash zones is:</p> <ul style="list-style-type: none"> * Exposure class: XS3 * Minimum concrete grade: C40/50 * Maximum water/cement ratio: 0.45 <p>Minimum cover to reinforcement: 75 mm</p>	<p>design life of 50 years for all harbour structures, including precast concrete elements exposed to seawater.</p> <p>As per BS EN 206 and BS 8500-1:2023, a 50-year intended working life is achieved through proper design, detailing and construction to meet the relevant durability classes.</p>	
<p>5. Sediment Transport Within the Harbour</p> <p>The sediment movement inside the harbour cannot be properly assessed without conducting proper numerical modelling supported by relevant data collection over a defined period. Without such studies, we cannot take responsibility for the design should sedimentation issues arise during operation.</p> <p>Kindly confirm if the Employer intends to provide such modelling data or if the Contractor is expected to generate after award</p>	<p>Employer's Requirement</p>	<p>Educated informed judgement to be done by contractor on available data, including but not limited to drone aerial images, Google Earth, Satellite Images, Sentinel Hub EO Browser, etc.</p>



<p>6. Crest Height and Overtopping Requirements</p> <p>The Employer's Requirements (ER) only specify the minimum crest height of +1.6 m MSL, with no reference to the allowable wave overtopping rate. In order to design the crest height to meet the client's functional needs, the acceptable overtopping rate must be provided as per the international standards or local standards. Without this information, there is a risk of significant cost variation among bidders, as each may adopt different assumptions for overtopping. The overtopping can be set as negligible or to an acceptable limit based on intended land use behind the structure. Kindly confirm, What is the intended overtopping rate (l/s/m) ?</p>	<p>Employer's Requirement</p>	<p>To follow relevant design standards to limit overtopping volume. Crest height should be greater of the calculated height vs +1.6 MSL</p>
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Name: Aminath Naheen Ahmed

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Signature:

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