



CLARIFICATION 2

މަޢުލޫމާތު ޖަވާބު 2

ނަންބަރު No:	TES/2021/W-134		
ޕްރޮޖެކްޓް Project:	Survey, Design and Construction of M. Muli Harbour		
ޕްރިންޓް ޖަހާ ދުވަހު Issued Date	30 th September 2021		
ސަފުހާގެ އަދަދު No. of Pages: -01	ބޯޖުގެ އަދަދު Boq: -00	ޑްރޯއިންގްގެ އަދަދު Drawings: -00	

Please include this Clarification when submitting the bid. މި ޖަވާބު ޖަހާ ދުވަހުގެ ތެރޭގައި ޖަހާ ޕްރޮޖެކްޓްގެ ޕްރޮޕޯޝަލް ޖަހާ ފަދަ ގޮތެއްގައި ހިމަނާ ލިޔެކިޔުންތަކެއް ހުރި ނަމަވެސް، ފަސޭހަވާ ނުކުރެއްވުމަށް ދަންނަވަމެވެ.

➤ Below please find the clarifications for the queries.

1. What is the function of this structure? To our understanding, this might be a structure that prevents sediment transport into the basin.
The 32m long submerged breakwater is to prevent sediment transport into the basin.
2. Depth of seabed is 4.5m at deepest point, so this would require a significant volume of rocks to bring crest height to MSL. Furthermore, the toe will be extended and the nature of the seabed on which the breakwater is placed is unknown. Should we account for this in the concept by embedding (excavating the bed and placing) the breakwater deeper into the bed?
All rock structures are placed outside the dredged basin. For rocks that are to be placed over existing deep channels, the channel can be filled with dredged sand + coral debris mix up to the surrounding sea bed level and rock structures can be built over this. Toe protection should be given to all rock structures where required. In case where the natural seabed is very deep, then bedding stones can be provided to bring the seabed level up to the level of surrounding seabed.
3. In employers' requirements it is stated that: breakwater rock size to be determined by proper calculations. It should not be less than 800kg even though with calculation a lower figure is shown'. Does this mean rock median mass (M50) needs to be above 800kg or minimum rock size needs to be higher than 800kg (i.e. nonstandard grading beginning at 800kg).
The minimum average mass should be 800kg and rock grading should be given according to relevant standards.
4. Is there a minimum slope requirement for inner basin dredging?
Minimum slope should be calculated based on internal friction angle of soil. For this purpose, please do not use an angle of internal friction higher than 30°

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Signature: