

بسم الله الرحمن الرحيم



Ministry of Finance

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CLARIFICATION 1

ނަންބަރު 01

މަނުކުލާ	No: TES/2018/W-034	
ފޮތް	Project: Entrance Channel Dredging and Construction Work in Ga. Matu	
ދިނުމުގެ ދުވަހު	Issued Date: 06 th December 2018	
ސަފުހާގެ އަދަދު	Boq: - 0	ޖަހާފައިވާ ޖަހާފައިވާ
No. of Pages: 4	Boq: - 0	Drawings: -0

Please include this amendment when submitting the bid. ބިދު ހުށަހަޅާ ފަހަރު މި އިތުރުކުރުމުގެ ބަޔާން ހިމާނުވާން ޖެހޭނެއެވެ.

- Please find the Clarification details attached.

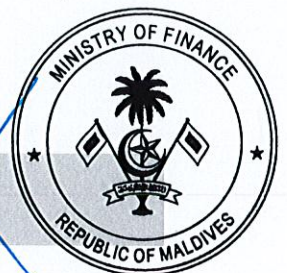
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Name: Fathimath Rishfa Ahmed

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Signature:

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CLARIFICATION

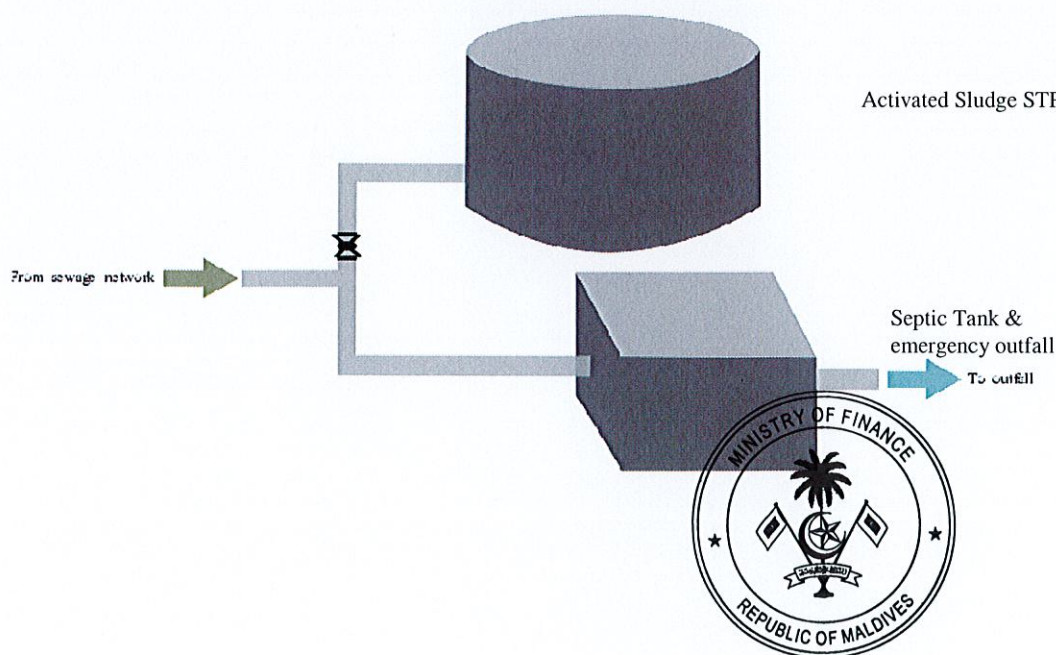
- **Scope of Additional Works**

In addition to the scope identified in the bidding document and technical specifications, please find the scope of additional works for which quotations are required by the bidder

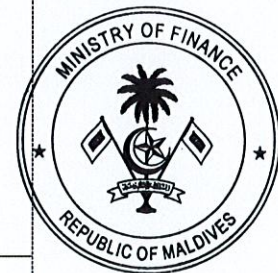
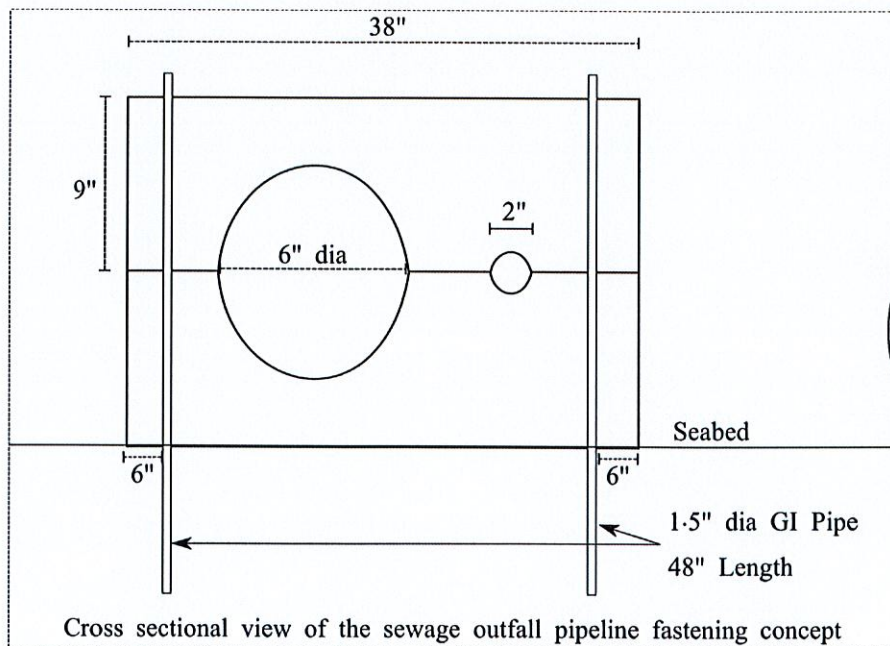
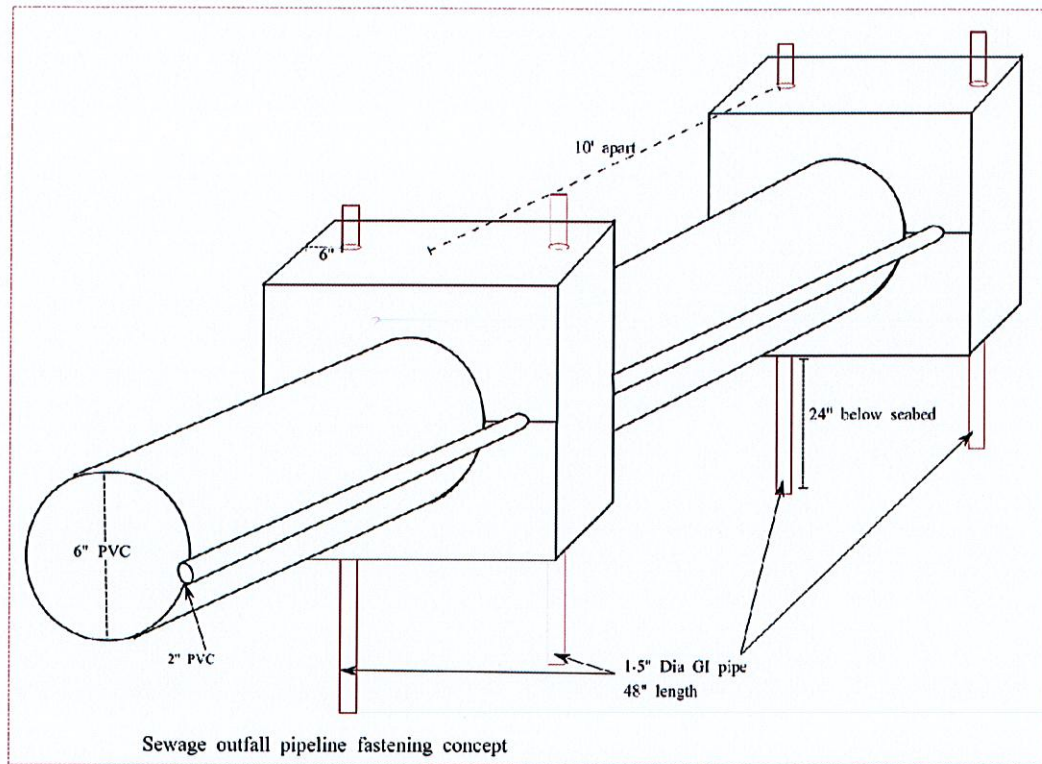
- **Sewage network designing and installation**

1. The bidder shall quote for the design of a complete sewage network, approval from authorities, installation and commissioning of all components of the sewage network.
2. The successful Bidder shall provide the specification for an activated sludge sewage treatment plant suitable for a facility with a maximum of 50 individuals at any given time, procure and install the plant upon approval from the client
3. The complete sewage network means connection from all buildings to the treatment plant, and to the emergency outfall
4. The Bidder shall estimate the lengths of pipelines in the sewage network based on the information provided.
5. The sewage network shall be connected to a septic tank connected to an emergency outfall.
6. The emergency outfall pipeline shall be 6" high pressure PVC
7. The outfall shall be extended to the reef edge (approximately 250 m length from the sewage treatment plant) and fastened at 10m intervals with concrete blocks as shown in the diagram

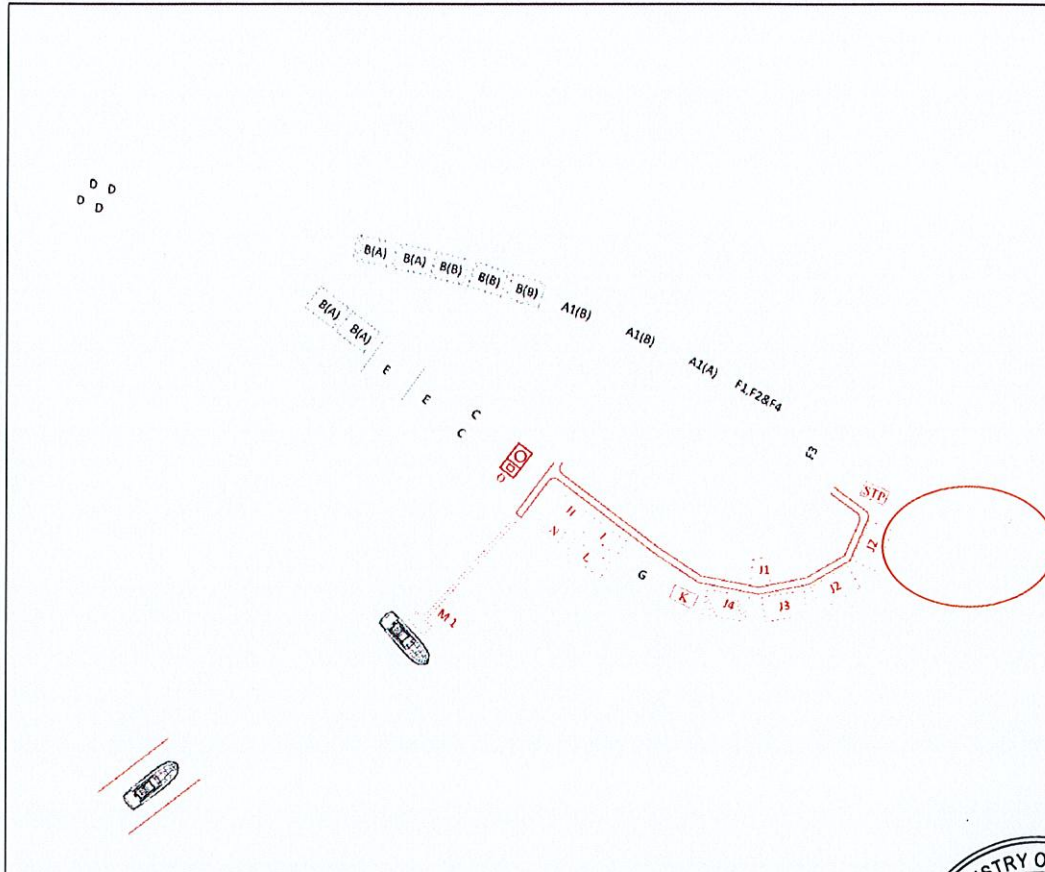
- **Schematic diagram of sewage treatment plant connections with emergency outfall**



- Schematic diagram showing sewage outfall fastening concept



- **Location of sewage treatment plant**



Note: the sewage treatment plant is not to scale with respect to the map



- **Installation of the power distribution system**

1. The Bidder shall quote for electrical system designing, approval from authorities, installation and commissioning of all components of the power grid to the standard acceptable to Maldives Energy Authority and STELCO.
2. The Bidder shall quote to supply, install, test and commission a fully operational power network that meets the power requirement of all buildings on site.
3. The above includes but is not limited to, all sizes of cables, pipe trenches, ducts, Generator sets of adequate sizes (estimated at 4 gensets of 150-200KVA capacity, may vary depending on the electrical design) roadside distribution boxes and the components of the distribution boxes and panel boards, in addition to fuel storage systems and fuel delivery pipelines from the jetty to the storage systems, in accordance with the electrical design and in compliance with guidelines established by Maldives Energy Authority.
4. The complete grid means the connection from the power generation to the additional panel boards for the grid within the power station and up to the buildings and connections within the buildings

5. The successful Bidder shall present the design calculations and schematic drawings for approval prior to the execution of work
6. The successful Bidder shall submit the as built electrical drawings upon completion of the project during hand over
7. The Bidder shall quote for the provision of street and jetty lighting placed 30m apart. This component shall evaluate streetlight luminaires considering such elements as luminaire construction, photometrics, maintenance costs and life span.

- **Water network**

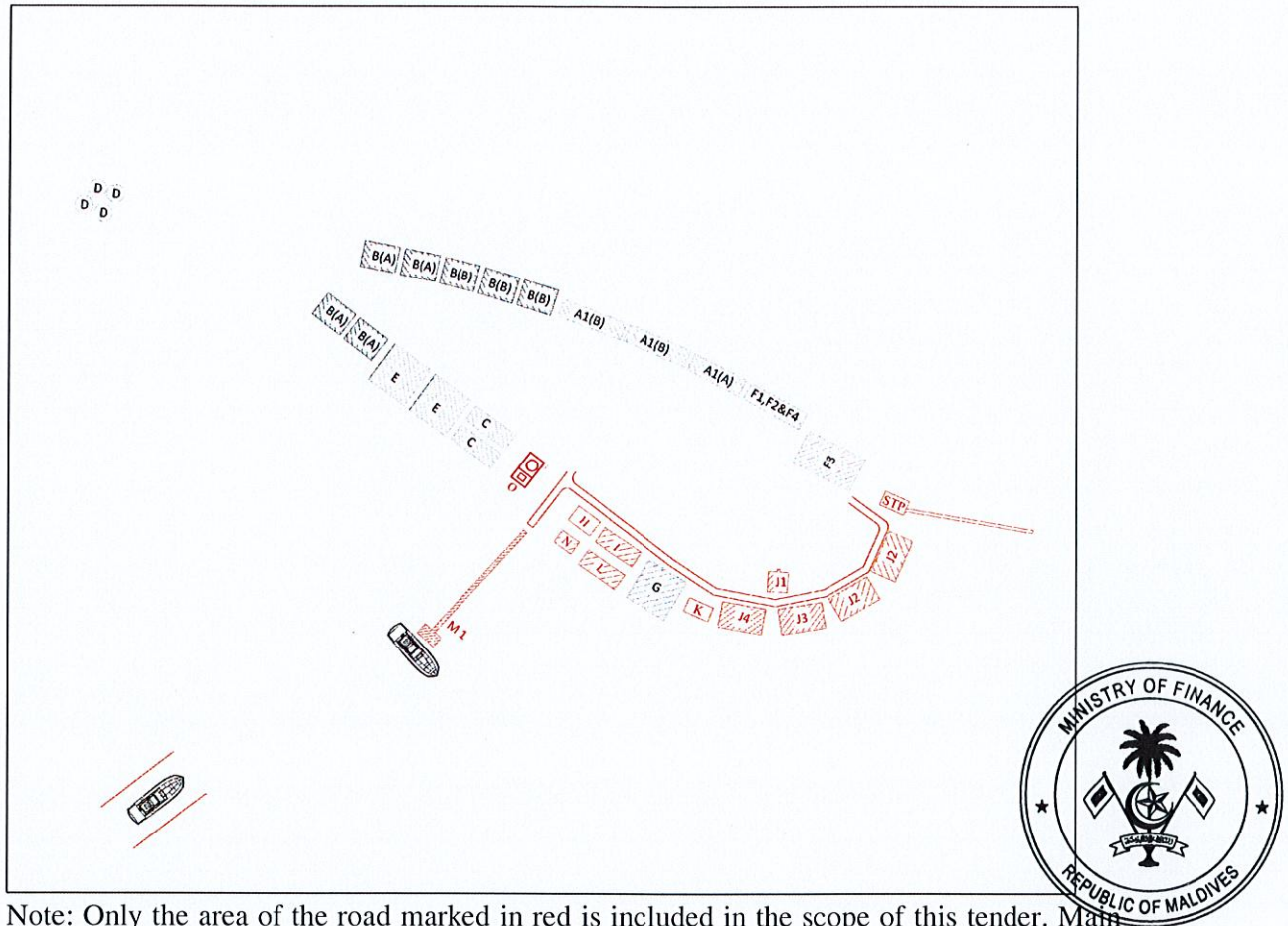
1. The Bidder shall quote for the design, commissioning and testing of an operational Desalinated water network for all the buildings on site, adequate for a facility with a maximum of 50 individuals stationed on site at any time.
2. The water network means the Reverse Osmosis desalination plant, brine outfall, storage tank(s) of adequate capacity, connections of RO plant to the storage system and up to the buildings, and connections within the buildings.
3. The brine outfall shall be extended alongside the jetty and should not be visible.
4. The design shall be submitted to the client for approval prior to commencement of the works.

- **Designing and clearing for roads**

1. The Bidder shall quote for designing, clearing and leveling of access roads to all buildings as shown in the concept provided.
2. Only road clearing and leveling is included in the scope of this work, no paving is required.
3. The designs shall be approved by the client.
4. A width of 20 ft is required for all main roads, and 10 ft for all side roads.
5. The total length of the main roads are estimated at 250 m. Actual lengths to be determined based on the road design provided by the successful bidder.



Road clearance concept



Note: Only the area of the road marked in red is included in the scope of this tender. Main roads should be cleared to have a width of 20 ft. Side roads to access all buildings should be cleared to have a width of 15 ft.

- **Details of entrance channel dredging**

1. The Bidder shall quote for the dredging of a 30m wide, and 26m long entrance channel with a depth of -4m from Mean Sea Level.
2. An estimated 1200 m³ of dredged material is expected to be generated during entrance channel dredging, and all dredge material shall be used as filling material during construction of buildings on site, as outlined in the EIA report provided.
3. The bidder shall provide and install harbor lights (2 nos) at the entrance channel

- **Response to queries**

1. Dredging BOQ is not uploaded in the website:
 - a. Dredging requirements are provided in the additional scope document above. The bidders to quote for dredging in accordance with the requirements provided.
2. If dredging is in our scope, then need location for disposal of sand
 - a. All dredge material to be used as filling and leveling material for the construction project.
 - b. Dredged material shall be piled temporarily at a designated clearance site for the construction project.
3. Site clearance and a method of disposal of existing vegetation
 - a. It is within the scope of this construction project to clear all building sites included in the scope of this project.
 - b. All mature vegetation (minimal numbers of coconut palms, uni, dhiggaa, boa kashikeyo and funa trees) shall be transplanted for the improvement of island vegetation, and the remaining site clearance material generated shall be collected near the sewage treatment facility.
 - c. Green wastes shall be burnt on site or mulched, in accordance with the EIA report
4. Fuel storage construction is mentioned in the website but BOQ and drawings missing
 - a. Please refer to the “installation of power distribution system” in the additional scope above.
 - b. The successful bidder shall design and build the fuel storage facility in accordance with the specifications of the electrical design to be conducted by the successful bidder, and in accordance with rules and regulations of Maldives Energy Authority
5. Internal transport connection for all buildings BOQ and Drawings missing
 - a. Please refer to the “designing and clearing of roads” in the additional scope above.
 - b. The successful bidder shall design and clear access roads to all buildings. This may be included in the scope of vegetation clearance for the building sites
6. Construction waste disposal location
 - a. Only a small amount of construction wastes is expected to be generated from this project.
 - b. The successful bidder shall transport and dispose of all construction wastes at a construction waste disposal site designated by the authorities.
7. Main sewer and electrical connections in and out of the island (Drawing)
 - a. Please refer to the “installation of power distribution system” and “Sewage treatment plant installation, connecting to the sewer network, and extension of sewage outfall pipeline” in additional scope above



- b. The successful bidder shall design both networks in consultation with the client and submit for approval of client prior to construction.
8. Need bathymetric survey done by EIA and soil investigation report
 - a. "EIA report" and island contour map included in the addendum.
9. No site plan
 - a. Site plan with the buildings included in the scope of the construction project highlighted in Red included in the addendum
10. Space for material storage and how far from unloading jetty
 - a. The area marked G on the site plan provided shall be used for material storage
 - b. The bidders to estimate distance from unloading jetty
11. Request for bid has mentioned 10 months duration, while in the bid document says 12 months duration.
 - a. 10 months
12. In all the BOQs in Bill no. 5: Woodworks, the given qty and unit is incorrect:
 - a. Bidders to propose revision with correct quantity units in Bill no. 5.
13. Arrival jetty total length is not given in the drawing (please provide arrival jetty total length and depths):
 - a. Total length of the jetty estimated at 75 m, including the loading and unloading area of the arrival jetty, with column placements 3m apart.
 - b. The columns to be placed -2m below lower tide level, with a total height of 3.9 m height. The foundation depth at 350 mm below sea bed level (please find details in Section X-X (page 6) of the arrival jetty drawing).
14. Request for Bid has mentioned about Entrance channel dredging and construction works, but in the bid document entrance channel dredging scope is missing.
 - a. Please find the entrance channel dredging scope in the additional scope above
15. To finalise mobilization cost, availability of below items it is necessary to know how far from each construction site? (a) unloading jetty; (b) space for material storage and how far from unloading jetty; (c) Site clearance details (no. of trees to cut and types of trees)
 - a. The bidder to estimate distances based on site plan provided
 - b. The area marked G on the site plan provided shall be used for material storage
 - c. The island has very few mature vegetation including a few coconut palms, uni, dhigga, funa, boa kashikeyo. Most of the island has bushy vegetation.



16. Bid document has combined BOQ and individual buildings (8 nos) BOQ, please confirm which one bidder has to fill :
- Combined BOQ to be filled by the bidders
17. Do we have to price for harbor lights, jetty lights and road lights? No details given in the bid document for these items
- Please find details of street and jetty lighting in the “installation of power distribution system” in the additional scope above.
18. Request for bids has additional works, please confirm if we need to price for the below as well:
- Entrance channel dredging: yes, please find details in the additional scope above
 - Clearing of areas for buildings: yes, to be quoted for building footprint
 - Fuel storage: yes, details to be determined from an electrical design study carried out by the successful bidder
 - Warehouse: No, this is no longer part of the scope of this bid
 - Laboratory: No, this is no longer part of the scope of this bid
19. Is it allowed to have prefabricated buildings? Foundation will be concrete/ side walls M-board/ steel beams
- Yes, Contractor shall submit soft drawings of the prefabricated buildings prior to shipping the items, for approval by the client
 - All buildings except for the powerhouse may be constructed using prefabricated material, to the designs and sizes specified in the drawings provided. The powerhouse shall be constructed using concrete.
20. For the form FORM PER - 1 - Key Personnel Schedule; Is it a requirement to insert a high level Gantt chart for each person separately? Please clarify
- Not required

