



Ministry of Finance

Ameenee Magu, Male', Republic of Maldives

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CLARIFICATION 1

ކަނޑުވަނަ ޞަފްހާ 1

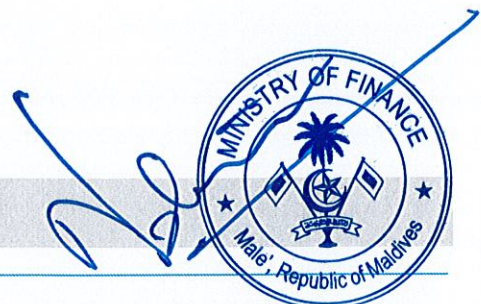
|                                      |                                                                                                                                             |                                    |  |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--|
| ނަންބަރު<br>No:                      | TES/2019/W-172                                                                                                                              |                                    |  |
| ފްރޮޕްޖެކްޓް<br>Project:             | Survey, Design and Construction of Water Supply and Sewerage Networks in Hdh.Nellaidhoo, Hdh. Neykurendhoo, Hdh. Makunudhoo and Sh. Feydhoo |                                    |  |
| ދިނުމުގެ ތާރީޚް<br>Issued Date       | 20 <sup>th</sup> January 2020                                                                                                               |                                    |  |
| ސަފްހާގެ އަދަދު<br>No. of Pages: -06 | ބޮޑުވަނަ<br>Boq: -00                                                                                                                        | ޖަހާލުމުގެ އަދަދު<br>Drawings: -00 |  |

Please include this amendment when submitting the bid. ބިދު ދަނީ ޖަމާކުރުމުގެ ވަގުތުގައި މިއަދުގެ ޖަހާލުމުގެ އަދަދު ބަދަލުވާނެ ކަމަށް ބަލާލަން ޖެހޭނެއެވެ.

- Find the attached Clarification Sheet

ނަންބަރު  
Name: Aminath Naheen Ahmed

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Signature:



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**Ministry of Finance**

Male', Republic of Maldives

**Survey, Design and Construction of Water Supply and Sewerage Networks in  
Hdh.Nellaidhoo, Hdh. Neykurendhoo, Hdh. Makunudhoo and Sh. Feydhoo**

**TES/2019/W-172**

- Both Do tenders have to mention the total contract amount of all sewerage island BOQ'S at one letter of the tender are have to provide separate of Each letter of tender?

Letter of Tender should be for each package and not each island.

- Layout survey and Design of the proposed sewerage project, we have to submit through bid documents?

No. These will have to be submitted for concept design and detail design stage and will need to be carried out after award of contract to the successful bidder.

- Both tenders each island specific details documents are missing, because provided BOQ all items given as lump sum (LS). How can we prize.

Island specific details will be provided in the Employer's Requirement. You are to price based on those requirements and any other information available from the island.

- Please tell us that we have to fill and submit with tender documents the pages reference no.57,58,59,60,61,62 or have to submit after winning the tender?

The pages should be filled by the contractor and submit with the bid

- Does the project require environment monitoring during construction as a part of contractor scope?

Yes, required if mentioned by EPA.

- Is EIA done for this project or do we need to make one by ourselves?

Successful contractor will need to do EIA. EIA is not done yet.

- Is 3 phase electricity available near the islands?

Three Phase electricity will be available from island power house and distribution boards. If adequate power is not available from DB, then power will have to be taken from Power House.

- Where to dump construction debris?

Excavated material can be dumped near island waste management center but other produced waste will need to be brought to Thilafushi





| S.No. | Section    | Volume and Page.No               | Clause No.   | Query                                                                                                                                                                                                                       | Answers by MNPI                                                                                                                         |
|-------|------------|----------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Section II | Bid Data Sheet<br>Page Number 28 | ITB 4.3      | Kindly confirm if an international bidder is also required to register under National Contractors Registry or not.                                                                                                          | Yes                                                                                                                                     |
| 2     | Section II | Bid Data Sheet<br>Page Number 28 | ITB 7.4      | We hereby request client to organize a pre bid meeting followed by Site visit so that all the bidders get acquainted to the site details.                                                                                   | Pre bid meeting is not arranged for projects now. Contractor is to visit site and collect the necessary information, at his own expense |
| 3     | Section II | Bid Data Sheet<br>Page Number 29 | ITB 11.1 (i) | Kindly confirm if an international bidder is required to get Business Registration Certificate , GST Registration Certificate prior to bidding or not.<br><b>OR</b> The bidder can register upon being a successful bidder. | Business Registration Certificate and GST Registration Certificate can be obtained upon being a successful bidder                       |
| 4     | Section II | Bid Data Sheet<br>Page Number 30 | ITB 20.1     | Kindly confirm if the bidder can submit the bid electronically or not OR, Bidder needs to submit in hardcopy.                                                                                                               | Bidder needs to submit hardcopy                                                                                                         |
| 5     | Section II | Bid Data Sheet<br>Page Number 30 | ITB 20.1     | Kindly confirm if it is a single stage bid or double stage bid. i.e. the price bid will be opened on the same day of Technical Bid or at a later stage.                                                                     | Single Stage Single Envelope                                                                                                            |



- please clarify the availability of material storage and accommodation?

Storage space will be available from island. Space for accommodation can be allocated depending on number of workers on site.

- water supply for construction work source.

Supplied water will not be available. Ground water can be used for construction provided that Chloride and Sulphate content of water is within acceptable limits. Contractor will need to verify ground water quality from laboratory tests.

- There is lot of detailing to be done for each island in order to identify the pipe routing, SWRO Plant Area, Public offices area and rainfall data for rainwater harvesting. This needs at least 2 to 3 sites to properly understand the details

Ans: Contractor is encouraged to visit the site, contact island council (if necessary) and get the required data.

- For the SWRO Plants we need to collect the inlet Water Analysis which is not provided along with the Tender. This is the basis for design of a SWRO system.

Ans: Inlet water will be very similar to sea water having a TDS of 38,000 mg/L

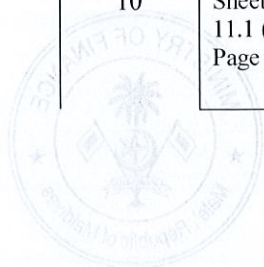
- There are many ambiguities and missing data in the tender which we will be highlighting through our queries

Ans: Please let us know these details so that we can arrange timely responses





|    |                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                                                                                                                                                                  |                                                                              |
|----|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 6  | Section-I:<br>ITB, Cl<br>2, Source<br>of Funds,<br>Page 5 &   | Financing<br>Agreement<br>Amount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ITB<br>Clause<br>2    | Please specify the<br>status and amount<br>of funds allotted<br>for this project                                                                                 | This is confidential information                                             |
| 7  | Section-I:<br>ITB, Cl<br>35.5, Page<br>25                     | If the bid, which<br>results in the<br>lowest Evaluated<br>Bid Price, is<br>seriously<br><u>unbalanced or front<br/>loaded</u> in the<br>opinion of the<br>Employer,<br>..... After<br>evaluation of the<br>price analyses,<br>taking into<br>consideration the<br>schedule of<br>estimated Contract<br>payments, the<br>Employer may<br>require that the<br>amount of the<br><u>performance<br/>security be<br/>increased</u> at the<br>expense of the<br>Bidder to a level<br>sufficient to protect<br>the Employer<br>against financial<br>loss in the event of<br>default of the<br>successful Bidder<br>under the Contract. | ITB<br>Clause<br>35.5 | a. Please specify<br>the estimated cost of<br>the project<br>b. Please specify<br>the maximum limit<br>of Performance<br>security for the<br>unbalanced bid      | Perofmance security is 10% of signed<br>contract value.                      |
| 8  | Section II:<br>Bid Data<br>Sheet, ITB<br>11.1 (i),<br>Page 29 | Business<br>Registration<br>Certification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ITB<br>11.1 (i)       | Since we are an<br>International Bidder,<br>we request you to<br>accept that the same<br>will be applied upon<br>successful bid<br>evaluation. Please<br>confirm | Business registration can be done by<br>successful bidder only               |
| 9  | Section II:<br>Bid Data<br>Sheet, ITB<br>11.1 (i),<br>Page 29 | GST Registration<br>certificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ITB<br>11.1 (i)       | Since we are an<br>International Bidder,<br>we request you to<br>accept that the same<br>will be applied upon<br>successful bid<br>evaluation. Please<br>confirm | GST registration can be done by<br>successful bidder only                    |
| 10 | Section II:<br>Bid Data<br>Sheet, ITB<br>11.1 (i),<br>Page 29 | National<br>Contractors<br>Registry Certificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ITB<br>11.1 (i)       | Since we are an<br>International<br>Bidder, we request<br>you to accept that<br>the same will be<br>applied upon<br>successful bid                               | All bidders are required to registry<br>under National Contractors Registry. |





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|----|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                                        |                                                                                                                                                                                                                                                                             |                      | confirm                                                                            |                                                                                                                                                                                                                                                                                                                        |
| 11 | General                                                                | Payment Terms                                                                                                                                                                                                                                                               |                      | Please indicate the payment terms for this project                                 | 15% Advance will be paid upon submission of Advance payment guarantee. Interim payments will be made after the invoiced work is done. 5% retention will be deducted from all payments. Payments will be made in USD. For each invoice, contractor needs to submit 6% GST payment invoice and this will be paid in MVR. |
| 12 | Section X: Contract Forms, Part A: Contract Data, Cl 1.1.3.3, Page 416 | Time for completion                                                                                                                                                                                                                                                         | Cl 1.1.3.3, Page 416 | Please indicate the period of Trial run & Commissioning                            | Trial run & commissioning will be done after all works are completed.                                                                                                                                                                                                                                                  |
| 13 | Section X: Contract Forms, Part A: Contract Data, Cl 1.1.3.3, Page 416 | Time for completion                                                                                                                                                                                                                                                         | Cl 1.1.3.3, Page 416 | Please indicate the period of Performance Guarantee test run                       | Performance Guarantee will be until end of project completion i.e DLP is not included                                                                                                                                                                                                                                  |
| 14 | Cl 9.3: Retesting, General Conditions of Contract                      | If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Engineer or the Contractor may require the failed Tests, and Tests on Completion on any related work, to be repeated under the same terms and conditions. |                      | Please specify the number of test permitted to achieve the results                 | Testing will have to be done until system is functional as per EPA requirement specified in <a href="http://www.epa.gov.mv">www.epa.gov.mv</a>                                                                                                                                                                         |
| 15 | General                                                                | Water Supply System                                                                                                                                                                                                                                                         |                      | Please provide the inlet water quality and the required outlet quality parameters  | Inlet water will be Borehole water similar to sea water having TDS of 38,000 mg/L. Outlet water quality should be TDS less than 500 mg/L and conductivity of 750 microsiemens per centimeter                                                                                                                           |
| 16 | General                                                                | Sewerage System                                                                                                                                                                                                                                                             |                      | Please provide the inlet sewage quality and the required outlet quality parameters | Inlet sewerage quality and outlet sewerage quality can be found in EPA guidelines for Sewerage network design in their website <a href="http://www.epa.gov.mv">www.epa.gov.mv</a>                                                                                                                                      |





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|----|------------------------------------------------------------------------|--------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 17 | Part 2:<br>Works<br>Requirements, Island<br>Specific<br>Data<br>Sheets | Sewerage System                |  | there is no STP to be constructed under this project and the sewage to be directly discharged into sea via sea outfall. Please confirm.                                                                                                                                                                                                                                                                                                 | STP is required.                                                                                                                                                                                                |
| 18 | General                                                                | Land Allocation                |  | Please confirm the land for the proposed project facilities are already available with client which is encumbrance free                                                                                                                                                                                                                                                                                                                 | Land will be provided free. The selected area by contractor for each facility (RO Plant & STP) should not be more than 10,000 sqft.                                                                             |
| 19 | Section-I:<br>ITB 25.1                                                 | Submission and Opening of Bids |  | We request for an extension of atleast 60 days from the current bid due date                                                                                                                                                                                                                                                                                                                                                            | Refer to Addendum 2                                                                                                                                                                                             |
| 20 | General                                                                | EPA Guidelines                 |  | Ø Environmental protection agency (EPA) Guidelines shall be provided.<br>§ Too many specifications, publications, search results are available in the Website of EPA.<br>Request to provide the specific Design criteria & Technical specification for conventional gravity sewerage system and Design criteria & Technical specification for design & construction of water treatment & supply system as mentioned in Tender document. | EPA guidelines can be downloaded from their website <a href="http://www.epa.gov.mv">www.epa.gov.mv</a> under the following link <a href="http://en.epa.gov.mv/regulations">http://en.epa.gov.mv/regulations</a> |
| 21 | General                                                                |                                |  | Population for 2017 is provided in tender document, however please provide the population growth rate or previous population data for                                                                                                                                                                                                                                                                                                   | These will need to be obtained from island council after visiting the site. Growth rate is often not more than 3%                                                                                               |



|         |         |                                                      |  | years.                                                                                                                                                                                                                                                                                          |                                                                                                                                                                              |
|---------|---------|------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22      | General |                                                      |  | What is the demand to be considered for institutional / commercial and provisional connections? Is there any specific lpcd or percentage?                                                                                                                                                       | These can be found in EPA Water Supply design guidelines given above.                                                                                                        |
| 23      | General |                                                      |  | Peak hour demand / hourly peak factor shall be provided.                                                                                                                                                                                                                                        | This needs to be calculated as per EPA design guideline given above                                                                                                          |
| 24      | General |                                                      |  | What is the percentage to be considered for NRW?                                                                                                                                                                                                                                                | Allowable losses are given in EPA design guidelines                                                                                                                          |
| 25      | General |                                                      |  | Is there any existing network (sewerage / water supply) available in each island? Is yes, the existing sketch for the same shall be provided.                                                                                                                                                   | No existing sewerage network in any island. Dharavandhoo island has a water supply network and drawings of this will be given to successful bidder upon signing of contract. |
| 26      | General |                                                      |  | As per Tender Clause. 2.5.3.2 Gravity sewer pipes shall be uPVC, but as per tender clause 3.1.3.6 under pressure testing, the gravity sewer shall be PE pipes. Please confirm whether all gravity pipelines shall be considered as uPVC pipes and piping mains shall be considered as PE pipes. | All gravity pipes should be uPVC pipes and force main pipes will be HDPE pipes                                                                                               |
| Section | Clause  | Clarification                                        |  |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|         |         | Is Tax Clearance Report required for these bids? Yes |  |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |
|         |         |                                                      |  |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                              |





|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>building is included in the Scope of works of sewerage system but, not included in the BOQ. Refer BOQ and Technical Specification part 2: Sewerage system works, Section 1 - Scope of works, 1.2. Summary of Scope of works (item number 4). Clarify the discrepancy and where to cost in the BOQ.</p> <p>BOQ has been revised to include this work. STP and Admin Building is required.</p>                                                                                                                                                                                                                                                               |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Construction of Administration building is repeating in the scope of works of sewerage system. Refer Technical Specification part 2: Sewerage system works, Section 1 - Scope of works, 1.2. Summary of Scope of works (item number 3 and 4). Kindly please advise!</p> <p>Only 1 STP is required for each island. Admin building can be shared for STP and RO plant building.</p>                                                                                                                                                                                                                                                                         |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Request to provide scaled LUP map of all islands (AutoCAD file).</p> <p>Available LUPs have been provided</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Request to provide island map indicating the land areas where network pipes have to be laid during the execution of this project. This will help all the bidders to provide costing on a basis of common understanding for design and build type water and sewerage projects. This is not available at the moment. Bidders can follow LUP for each island when pricing.</p>                                                                                                                                                                                                                                                                                |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Request to provide list of all households of each island for providing house connection service. Number of household is included in the Island Specific information. Contractor can estimate based on that.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Request to provide as-built drawings of existing utility services in the island. This is not available for any island.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Clarify if PE100, SDR17, PN10 HDPE pipes can be used for water network, sewerage pumping mains and outfalls. HDPE pipe will have to be used as per EPA Water Supply design and Sewerage Network design guideline.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Provision of water quality testing equipment's is covered in the employers requirement but not included in the BOQ. Advise where to cost in the BOQ. Include this cost under RO plant &amp; Pumping system.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Item for Construction of Administration and RO plant building is included in the Bill of Quantities schedule 2 – General Works (item 5). Clarify how many buildings are covered in this item since scope of works of both technical specification (water supply and sewerage system) specifies to Construct Administration building. (Refer Technical Specification part 2: Sewerage system works, Section 1 - Scope of works, 1.2. Summary of Scope of works (item number 3 and 4) and Technical Specification part 3: Water supply system works, Section 1 - Scope of works, 1.1 (item number 5)) Admin building can be shared for RO Plant and STP.</p> |
|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|  |  | <p>Item for Construction of Administration and RO plant building is included in the Bill of Quantities schedule 2 – General Works (item 5) of B.Dharavandhoo sewerage project. RO plant building should not be in the scope of a sewerage project. Please clarify. Water supply system is not included in B. Dharavandhoo BOQ so please disregard Admin + RO Plant for Dharavandhoo.</p>                                                                                                                                                                                                                                                                      |





|  |  |                                                                                                                                                                                       |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | Clarify if battery bank has to be supplied with PV system. Yes                                                                                                                        |
|  |  |                                                                                                                                                                                       |
|  |  | Fixed duration of 12 months is not practical for completing a design and build water supply & sewerage system project. Please provide confirmation. Contractor can propose 18 months. |

|          | Question                                                                                                                                                                                          | Answer |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>1</b> | <b>Technical specification : 3.8. Granular bedding</b>                                                                                                                                            |        |
|          | Due to requested size not available in the Maldives market can we use the alternative material such as excavated material sieve up to 10mm or available coral size less than 10mm in local market |        |

Ans: Contractor can use sieved excavated material. But if that is not enough, you have to get the required bedding material from abroad.

|          |                                                                               |  |
|----------|-------------------------------------------------------------------------------|--|
| <b>2</b> | <b>Design Requirement Survey (a) Bench Marks</b>                              |  |
|          | Whats the contractors responsibility of making bench mark under this contract |  |

Ans: Contractor has to establish Permanent Survey Mark (PSM) as per Maldives Land and Survey Authority (MLSA)'s guideline. Guideline will be available from MLSA's website: [www.mlsa.gov.mv](http://www.mlsa.gov.mv)

