

ADDENDUM 1

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No:	TES/2018/G-005		
Project:	Provision of RO Plant and Storage Tanks in 12 Islands – Package 1 (Hdh.Kumundhoo, Hdh.Vaikaradhoo, Hdh.Nolhivaram, Hdh. Makunudhoo, N. Holhudhoo, R. Inguraidho and R. Maakurathu)		
Issued Date	21 st March, 2018		
No. of Pages: -01	Boq: -01	Drawings: -00	

Please include this amendment when submitting the bid. **بموجب هذا التعديل، يجب تضمين هذا التعديل عند تقديم العطاء.**

Please note that the Clarification 1, Technical Specification and BOQ is issued with this Addendum

Please be informed that the **bid submission** will be held on **March 29th, 2018 at 1000hrs** at Ministry of Finance and Treasury, National Tender.

اسم: **Aminath Naheen Ahmed**

Signature:



CLARIFICATION 1

Provision of RO Plant and Storage Tanks in 12 Islands – Package 1 (Hdh. Kumundhoo, Hdh. Vaikaradhoo, Hdh. Nolvivaram, Hdh. Makunudhoo, N. Holhudhoo, R. Inguraidhoo and R. Maakurathu)

#	Queries in common	Answer/ Clarifications
1	Bill of quantity and detail specifications missing	BOQ and detailed technical specification is attached
2	Regarding the above mentioned tender please advice for the below queries under mechanical; Flow Ratw & Head Details of; Wall Mount Fan Bore hole pump Filter Pump High pressure RO Pump Chlorine Dosing Pump Recirculation Pump Distribution Pump Backwash Pump Antiscalent Dosing Pump	Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection
3	Feed Water Quality of; Borehole pump RO Plant	Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection
4	Media Filters Size Flow Rate Type of media and size	Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection
5	Tank size & volume of; Backwash tank Sodium Hypochloride Storage Tank Chlorine Dosing Tank	<ul style="list-style-type: none"> • Backwash tank: please refer to schematic diagram in the drawings. Backwash tank capacity is given as 2.2 cbm • Sodium hypochlorite storage tank: please refer to the attached specification • Chlorine dosing tank: Capacity is given in attached technical specification
6	Piping Material for all pipe work within RO plant building	Please follow the attached technical specification
7	Even though an Engineers office & Mobile field offices for consultants are mentioned in the technical specification document, these items are not included in the BOQ. Should we include the costs for BOQ item 1.1? If	Please include cost in BOQ item 1.2. As per technical specifications, the office should be on site



	yes where this Engineers office will be located.	
8	<p>Followig Drawings are not in the tender drawing set. Therefor it's difficult for accurate pricing. Please send these drawings.</p> <p>Structural Drawings including reinforcement details of:</p> <ol style="list-style-type: none"> 1. RO Plant (Footings, Columns, Beams, Work top) 2. Feed Water Tank 3. Raw Water Storage Tank 4. Water Storage Tank 5. Backwash Tank 6. Tapbay Foundation 7. Harbour Koisk Foundation 8. Reject Water Tank 9. Ramp 10. Perimeter Tank 	Already given in drawing
9	<p>Construction details of ;</p> <ol style="list-style-type: none"> 1. Concrete Ballast Blocks 2. Diffuser Blocks 3. Doors & Windows 	Already given in drawing
10	What is the tile type & price cost of a tile for BOQ item no. 8.2 & 8.3?	Type and size already mentioned in BOQ item 8.2 & 8.3. Based on this information and those in the technical specification regarding tiling works, the price cost should be estimated by the contractor.
11	Please Clarify Beneficiary Name and Address – Required for Bank Guarantee and Credit facilities	Ministry of Environment and Energy
12	<p>Tender documents is silent about details drawings and specifications following</p> <ul style="list-style-type: none"> • Media filters (BOQ item no 12.4) • Cartridge filter (BOQ item no 12.5) • Plastic or Fiberglass backwash tank (BOQ item no 12.6) • Plastic or Fiberglass sodium hypochlorite storage tank (BOQ item no 12.7) • Fiberglass chlorine dosing tank (BOQ item no 12.8) 	<p>Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection</p>
13	<p>The document is silent about the details specification / capacity of following pumps.</p> <ul style="list-style-type: none"> • Chlorine dosing pump • Tank supply pump • Filter pump • Distribution pump (harbor kiosk) • RO High pressure pump • Backwash pump • Antiscalant pump • Borehole pump 	<p>Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection</p>
14	There is no drawing for "Provide RC bench in Testing lab" – required detail drawing with dimension	<p>Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection</p>



		osmosis plant" subsection
15	There is no any electrical details (drawings, capacities) about Water Supply System except buildings	Please follow the attached technical specifications for the above queries. In particular, pay close attention to the "Specification for reverse osmosis plant" subsection
16	There is no any brine discharge pump for reject water disposal (What is the method used for discharge brine reject?)	Include pump in addition/omission bill. Attached specification gives more details regarding capacity of the pump
17	There is no detail about length of 4core 6" cable (from Island Main Power Supply to ATS panel)	The length for the different islands are given below
18	What is the difference (or ratings) between power socket outlet symbols that have been shown in in Admin Building Drawing ?	BOQ item 9.6 gives the details

