بسم الله الرحمن الرحيم

Ministry of Finance
Ameenee Magu, Male', Republic of Maldives

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CLARIFICATION 01

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ނަންބަރު No:	**TES/2022/G-018**	
ޕްރޮޖެކްޓް Project:	**Design, Supply, Installation and Maintenance of Ice Making Plants from Sea Water in 4 Islands (N.Landhoo, Th.Buruni, Th.Madifushi & Th.Villufushi)**	
ތާރީޚް Issued Date	**13th February 2023**	
ސަފްހާގެ އަދަދު No. of Pages: -06	ބީ.އޯ.ކިއު Boq: -00	ޑްރޯއިންގ Drawings: -00

Please include this clarification when submitting the bid

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- Please find attached, answers to the queries received.

ނަން **Name: Fathimath Rishfa Ahmed**	ސޮއި **Signature:**

CLARIFICATION 01

#	Document Name	Document Reference (Section no/page no etc)	Query	Response
1			Section 2 – Bid data Sheet ITB 18.1: Bidders shall quote for the entire plant and services on a single responsibility basis. The Bid prices shall be inclusive of Goods and Services Tax, applicable under Maldives Tax Regulation. Where bid prices quoted is not indicated/mentioned as "exclusive" of GST or local taxes, the Purchaser have the right to take the quoted bid price deemed to be inclusive of GST and all applicable local taxes. The following components or services will be provided under the responsibility of the Employer: none. Unit Export Limited is an international company, doesn't have an office in Maldives and yes, we would be using a local contractor to carry out all the civil works and also like to know if we are liable for the GST or local taxes. If yes please could you advise the rate of the GST and the local taxes.	If any work is to be carried out in the Maldives, the selected bidder will have to re-register their business in Maldives including at the Taxation Authority (MIRA). They will also have to include GST in their Invoices for any work performed in the Maldives and pay to MIRA. Please visit www.mira.gov.mv for further information.
2			Section 2 – Bid data Sheet ITB 22.1, please confirm if the "one authentic soft copy" is to be in the form of an email, USB or CD?	USB or CD would be fine.
3			In regards the land where the Ice Plant on the 4 Island where they will be installed, please could you confirm if the land will be flat, doesn't have any trees, any building that require to be remove prior the civil work to be started. Also provide us the size and dimension of the location of where the goods will need to be install apart from the google earth photos that you have already send us in the tender document.	5,000 sq feet of land area will be provided from each island for the ice making plants. The areas are mostly flat and might have some bushes and minor plants, hence some leveling and bush/plant clearing may require.
4			What brand of compressor do you prefer? Bitzer or Hanbell?	No specific brand is required. But the compressor should meet the requirements given in the bid document.
5			Schedule No. 4: Installation and Other Services: Installation of all solar powered Ice making system, Commissioning of the solar powered Ice making system	Supply of solar power system is NOT a part of this project. Ice making plant should be

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			& O&M support services for the period of 1 year. A minimum quarterly periodic maintenance services and service reports for all Ice making plant. Could you confirm if we are also supply the Solar power system in our offer of the ice plant and if yes please could you provide us the technical specification of the solar power system for us to quote.	operable using three-phase AC 400-230 Volts, 50 Hz.
6			What should be the delivery system of the flake ice produced (i.e. how the flake ice will be taken out from the container, e.g. shoveling out manually, screw conveyor discharging flake ice to bins whereas ice storage bins are to be handled manually, or any other mechanism).	Ice plant on top and storage at bottom. Ice drop directly to storage with screw conveyor discharging flake ice to bins whereas ice storage bins are to be handled manually.
7			What are the water quality requirements that should be complied with, for the sea water for making ice (e.g. filtering particulate matter with sand filters and UV filters for destroying waterborne pathogens)	With sand filters and UV filters
8			Are the ice making plants indoor type or outdoor type? If the plants are indoor type, is it adequate to have containerized plant room/s for housing the ice making machine and the refrigeration machine or else is it necessary to have a plant room for the entire installation?	Indoor typewith plant room for the entire installation
9			What are the requirements for buildings (floor area, number of staff members) for the following? a. Plant room (if the ice making plant is indoor type and should be housed inside a plant room) b. Power house (for battery storage, solar inverter systems, power panels) c. Pump room for housing pumps for pumping water for ice making and for cooling of the water-cooled condenser of the refrigeration machine d. Room for housing water treatment plant for ice making and condenser cooling e. Treated water storage tanks for ice making and condenser cooling f. Business office for carrying out sales (of flake	a. Maximum entire plant room area shall be 5000sqft. The plant shall be designed with sufficient space for operation and maintenance. b. Not in the scope of plant supplier c. shall be designed within the 5000sqft area d. shall be designed within the 5000sqft area e. shall be designed within the 5000sqft area f. shall be designed within the 5000sqft area (Not less than 100sqft) g. shall be designed within the 5000sqft area

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			ice) g. Administration and maintenance office with facilities for maintenance staff and storage of spare parts and consumables required for plant operation	
10			Under sub-clause 1.3.2 of the '1 Scope of Supply of Plant and Services' of 'Section 6 - Employer's Requirements' of the Bidding Document, it is mentioned as follows. "............ PV solar plant of appropriate capacity is planned to set up in separate tender for providing electricity to the ice making plant is also marked in the map for information and necessary activity required by the contactor of ice making plant under this tender for successful commissioning of the ice making plant." However, other parts of the document implies that the solar PV system is included in the scope of work of this Bidding Document. Please clarify whether the scope of work of the solar PV system is included in this Bidding Document?	PV Plant is not included in the scope of this tender
11			Is the grid upgrade works of the LV distribution system included in the scope of works of this bid?	No. However the bidder is responsible for connecting the ice plant power to the grid.
12			Please provide plans/sketches with dimensions indicating the area allocated for each ice making plant and the solar panel installations and indicating distances between ice making plants and solar panel installations.	Not required at this stage and Solar Plant is not included in the scope
13			According to the item Nos. 1 and 2 of the 'Schedules of Rates and Prices' of 'Section 4 - Bidding Forms', Storage room capacity for flake ice making plant of 15 T/day : 35 T (3 Nos.) Storage room capacity for flake ice making plant of 5 T/day : 15 T (1 No.) However, under the bulleted list of sub-clause 2.2.2 of '2 Specifications' of 'Section 6 - Employer's	Storage room capacity for flake ice making plant of 15 T/day: 35 T (3 Nos.) Storage room capacity for flake ice making plant of 5 T/day: 15 T (1 No.)

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			Requirements', it is mentioned that the ice storage room capacity as 30 Tonnes (1 unit) and 15 Tonnes (3 units). Please state the exact requirement for the ice storage capacity.	
14			Electrical power supply is mentioned as 400 V/3P/50 Hz in the 'Schedules of Rates and Prices' of 'Section 4 - Bidding Forms' and the bulleted list of sub-clause 2.2.2 of '2 Specifications' of 'Section 6 - Employer's Requirements'. However, electrical power supply is mentioned as 380 V/3P/50 Hz in the 'Form Data Ice Making Plant' of 'Section 4 - Bidding Forms' (page 4-30) Please state the correct power supply requirement.	400 V/3P/50 Hz
15			What is the total power output of solar PV system?	Not relevant as the PV power will be fed to grid
16			Whether the electrical cabling system is underground or not?	Underground
17			In the Table 1-1 of sub-clause 1.1. of '1 Scope of Supply of Plant and Services' of 'Section 6 - Employer's Requirements', it is mentioned that the ice machine plant capacity as 15T/day - 80 kW and 5T/day - 30 kW. However, the electrical power requirement for the plants can differ from the above-mentioned values (i.e. may not be exactly 80 kW and 30 kW). Please clarify whether this is acceptable.	It's a reference figure for maximum power for the ice plant. The lower the better.
18			Please confirm whether the internal components of the ice making plants need to be made from SS 304 or is it SS 316 (since SS 316 has better resistance to salt).	SS316
19			What are the distances from each plant to the applicable sea water intake locations? What are the elevations to the ice making plant sites from the MSL (Medium Seal Level)?	Less than 150m 1m to 2m

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			(This information is needed to determine the pipe lengths and pump capacities)	
20			Please confirm whether a rake system for automatic levelling of the ice storage is required.	Required
21			What kind of maintenance is required for ice making plants?	Periodic Maintenance as specified by the manufacturer.
22			What kind of civil engineering works are expected in the scope of works?	Building Plant Room and laying of Sea Water Intake Pipe Lines
23			The bid document mentions that the refrigerant shall be R404A or equivalent and CFC free refrigerant having lower or equal boiling point. However, it was observed that a vapour absorption refrigeration system with ammonia as the refrigerant will provide a more economical and environmentally-friendly solution. Therefore, if we submit a bid with a proposal for an ammonia refrigeration system for the ice making plants, will our bid be acceptable for consideration?	Due to Toxic and Flammable Nature of Ammonia, it will not be accepted.

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