



AMENDMENT 2

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ނަންބަރު No:	TES/2015/W-167	
ފަންނާގެ Project:	Provision of Water Supply and Sewerage Facilities in Ga. Kolamaafushi.	
ނެރުމުގެ Issued Date	18 th January 2016	
ސަފުހާގެ No. of Pages: -10	ބޯޖުގެ Boq: -00	ޖަހާކުރުވުމުގެ Drawings: -00

Please include this amendment when submitting the bid .

- Please find attached answers to the queries raised in the Pre-Bid meeting and sent via email.

Please be informed that the bid submission for the project has been postponed and now will be held on **8th February 2016 at 1000hrs local time.**

ނަންމު
Name: Aminath Juweriya

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Signature:





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ނަންބަރު No:	TES/2015/W-166	
މަޢުލޫމާތު Project:	Provision of Water Supply and Sewerage Facilities in N.Velidhoo	
ދިނުމުގެ Issued Date	18 th January 2016	
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ނަންބަރު No:	TES/2015/W-164	
ދަތުރުގެ ނަންބަރު Project:	Provision of Water Supply and Sewerage Facilities in R.Hulhudhuffaar	
ދިނުމުގެ ދަތުރު Issued Date	18 th January 2016	
ޕޭޖް ގެ ނަންބަރު No. of Pages: -10	ބޯޖް ގެ ނަންބަރު Boq: -00	ޕްލާން ގެ ނަންބަރު Drawings: -00

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2 ވަނަ އަދަދުގެ ބަދަލު

ނަންބަރު No:	TES/2015/W-165	
ފްރޮޖެކްޓް Project:	Provision of Water Supply and Sewerage Facilities in B.Thulhaadhoo	
ޖެރުމީނު Issued Date	18 th January 2016	
ސަފުޕްލީ ޕޭޖްސް No. of Pages: -10	ބޯޕް Boq: -00	ޑްރޯޕިންގް Drawings: -00

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	Queries	Answer/Clarification	Island Name
1	Since the design of the schemes have been done in detail, please clarify if all spaces for the construction of the lift pumping stations has been enmarked and available for construction. Please confirm.	Land availability is confirmed for all the structures.	
2	The sand bedding under the pipelines has been shown as 100 mm in the drawing and 50 mm in the BOQ. This needs clarification as it has cost implications.	Consider 100 mm	
3	The details of the borewell in terms of its depth, anticipated discharge, pumping machinery and borewell diameter needs to be provided.	Typical Details Provided in Design Drawings	
4	The Ultra Filters provided for the RO plant for raw water may not be needed as the water is free from silica, TSS, BOD and COD. This can be dropped from the proposal. This need clarification.	It is a Design Requirement and it has to be provided as per contract document	
5	The capacity of the RO plant in each island is given as 2 x 60 m ³ /day. This needs clarification and confirmation.	The Capacities are different as per the Design , Check the BOQ	
6	The capacity of the Sewerage Treatment units is about 4 times higher than the RO plant capacity. This needs clarification and confirmation.	RO Plant only caters drinking water demand only, and STP for water from all facilities	
7	What would be the source of electricity to run the scheme components – borewell, lifting stations, the RO and the Sewerage Treatment Unit etc.	The main source will be from the Island Electricity power supply. Emergency generators are available for support during electricity breakdowns	
8	The concept of rain water collection and storage at a common tank and subsequent treatment at RO plant is not understood. This needs clarity.	Design is as per MEE, and EPA requirements	
9	The details of all pumping machinery at lift pumping stations, RCC effluent manholes, etc. need to be provided to assess the actual requirement.	Typical Details Provided in Design Drawings, Design data can be referred for clarification	
10	The details of the depth of the lift pumping station collection well below the invert level needs to be provided for all locations to assess the working requirements.	All the information is provided in the Design Data.	
11	Length of the 80 mm HDPE pipe in the BOQ for Velidhoo Water Supply is not provided. Kindly clarify.	The 80 mm HDPE pipe is included in the BOQ, Page 1.Item C	



12	Are the details for the services to be realigned would be provided during the execution of the project. Kindly confirm.	Details regarding existing services will be facilitated by the Client; the contractor has to liaise with the utility providers for realigning the same during project execution	
13	Kindly provide the details of local taxes proposed to be paid on the said project.	As per Maldivian Law regulations; details can be obtained from MIRA.	
14	In case some material is imported, would some tax concessions be provided for such an import.	All tax will comply with Maldives Tax Regulation	
15	Thickness of pavement to be provided all arounds the lifting station?	Thickness for Paving may be taken as 60mm	
16	Drawing No:ko-sw-105, the depth of packed pumping unit is not given i.e. height from base to Inlet elevation, else detention capacity is required?	This is a Typical Detail, Design data can be referred for clarification	
17	What is the autonomy days/capacity required for the solar batteries? Are there any specifications of the batteries required?	Depends on the choosen supply vendor, who has to do the necessary battery sizing calculation	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
18	Can we confirm the solar capacity as per below? Ga. Kolamaafushi - 55.5kWp Hybrid Solar System N. Velidhoo - 84kWp Hybrid Solar System R. Hulhudhuffaaruu - 55.5 kWp Thulhadoo - 63 kWp	N. Velidhoo - 69.63kW Ga. Kolamaafushi - 48.3kW R. Hulhudhuffaaruu - 48.3 kW B. Thulhaadhoo - 54.13 kW	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
19	Solar structure will be Anodised Zinc Aluminium Frame. Do you have any preferred specification?	Attached the design material specification which is based on our design	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
20	Any specification for the Solar panels?	Attached the design material specification which is based on our design	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo



21	Please advise if there is sample interim statement or payment certificates as mentioned in the bid security.	Will be provided upon contract award	Ga. Kolamaafushi Gdh. Gadhoo N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
22	From the bid security, the validity of the bid security shall be 3 years. Please advise if Hitachi can propose 1 year validity subjected to renewal on a yearly basis.	Cannot accept renewal of bid security on yearly basis.	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
23	Please confirm if the UF permeate tank shall be designed for 10m ³ or 2m ³ .	Selection subject to the RO Plant capacity requirement and Manufacturers recommendation, subject to client's approval	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
24	Please confirm location of pump station and STP on Ga. Kolamaafushi is as shown at the following area. 	The Pumping Station and STP location is prepared and approved by MEE, MHI and Island Council , which is shown on the Layouts. Any changes to the same will be confirmed during project execution	Ga. Kolamaafushi
25	Hitachi shall be supplying 2 units of UF and 2 units of RO mounted on individual skids. Please confirm	Selection subject to the RO Plant capacity requirement and Manufacturers product Catalog	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
26	Please confirm if the pre-treatment for RO is sand filter or UF.	Ultra filter has been considered for pre treatment in Design, Contractor can price the UF seperately	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
27	Please advise the dimension of the UF permeate tank.	Selection subject to the manufacturers recommendation subject to client's approval	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo



28	Can we propose an alternative size to the RO plant room? We will propose the required room dimension in detailed engineering stage. Reference drawing: 1) NV-WS-104 2) RH-WS-102 3) KO-WS-106 4) BT-WS-108	You can propose the alternative size with the supporting documents for the selection RO plant room, subject to client's approval	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
29	Please advise the diameter of the copper pipe required for the water meter	Pipe dia shall be as per the size of Water meter	Ga. Kolamaafushi N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
30	Please confirm if there are any specifications to follow for the design of sewerage treatment system Please confirm that the design incoming BOD5 and suspended solids are 91.25kg/day (250mg/l) and 109.4kg/day (300mg/l) respectively. In addition, the discharge BOD5 and suspended solids are 14.60kg/day (40mg/l) and 54.75kg/day (150mg/l) respectively.	Refer to the attached STP specification	Gdh. Gadhoo
31	In drawing no. GG-SW-116, there are two different configurations of sewage treatment units. Please confirm which configuration to follow.	The design data is correct	Gdh. Gadhoo
32	Please confirm the location of pump station and CWWTP?	The configurations are same , and represent the Process flow of STP	Gdh. Gadhoo
33	Please advise if there is a sample drawing for maintenance shaft	Location shown on the Layouts	Gdh. Gadhoo
34	BT-EL-102 require 5 nos of lifting station ALTS panels at 40A + 33 kVa generator. Quantity does not tally with BOQ. Please advise which to follow, BOQ list or drawing?	Check The provided Typical Details for Maintenance shaft	Ga. Kolamaafushi Gdh. Gadhoo N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
35		Follow the Drawing	Thulhadoo This is similar case for all 5 islands



36	BT-EL-103 require 1 no of lifting station ALTS panels at 80A + 63 kVa generator. Quantity does not tally with BOQ. Please advise which to follow, BOQ list or drawing?	Follow the Drawing	Thulhadoo This is similar case for all 5 islands
37	<u>BOQ</u> Item 4.4.7 (350A), Item 4.4.8 (60A) and Item 4.4.9 (125A) ATS Panels cannot be found on any drawing <u>Drawings</u> 5 nos of 40A, 1 no of 80A and 1 no. 300A (BT-EL-108) Is not in the BOQ	Follow the Drawing	Thulhadoo This is similar case for all 5 islands
38	BOQ Item 4.6.1 (Earth Pits), Item 4.7.1 (Lightning protection system) and Item 4.4.3 (diesel generators) Earth Pits/Earthing to follow design as per DWG BT-EL-107?	Follow the Drawing	Thulhadoo This is similar case for all 5 islands
39	Is there any information on the location or area required for lightning protection?	Each individual building has to be protected against the expected area lightning risk	Ga. Kolamaafushi Gdh. Gadhoo N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
40	Is there any information/location on telephone system in BOQ under Electrical Worksheet ?	Please refer B.O.Q page No. 21	Ga. Kolamaafushi Gdh. Gadhoo N. Velidhoo R. Hulhudhuffaaruu Thulhadoo
41	DWG NV-EL-108 (N. Velidhoo) shows the lighting and electrical DB schedule for the office and plant room. Is there such drawings for the other 4 islands?	Yes, there is a drawing for other islands also. Refer Dwg No. KO-EL-108, RH-EL-108, BT-EL-109,	N. Velidhoo
42	1. Has the design been approved by EPA and locations of lift stations, Pumping station etc been approved by Housing Ministry?	The Design is approved by EPA and LS and PS locations approved by Housing Ministry	



43	2. As per our survey we have found that some of the lift stations are located on private house hold lots. Is it possible to construct the lifting stations at such locations? Example LS-2 & LS-4 of Kolamaafushi Island and LS-1 of Gadhoo.	The LS and PS locations are finalized by Housing Ministry and Local Councils, Any changes to the same will be confirmed by Mee during project execution phase	
44	3. As per our survey we have found that lot of private house hold septic tanks/Junctions are installed on the roads of the island which will definitely be an obstruction for laying the proposed pipes. Some of them can be seen from the ground surface whereas some are not. How do we have to deal with these things during the construction phase? Should we have to include the cost for removing these items & making temporary arrangement? If so please include the item in BOQ.	Bidder may include the cost of removing obstructions under BOQ item 2.1.1.(Site preparation)	
45	4. To avoid damages to underground facilities it is necessary to have as-built drawings of the existing networks & structures laid under the ground of each island. Kindly please provide the as-built drawings of all services in the islands. Should we have to bear the cost for damages of anything that has no as-built records?	As built drawings of existing utilities will be provided for successful bidder upon contract award. Contractor will be liable for any damages to the existing structures during project execution although no records are available for as built of existing services.	
46	5. Please provide the pumping main layout to enable us to determine the full material requirement.	Refer to the sewerage Layout Drawings	
47	Also rather than laying separate pipe line from each lifting station to pump station, would it be possible for you to revise the design to a single pipe of bigger diameters, as this will avoid installation of numerous pipe lines?	All LS ,Discharging into single pipe of large dia is not advisable, any damage to the main pipe would render the system non functional.	
48	6. Please specify the dimensions of the lifting stations and pumping stations. Also if possible please recommend acceptable manufacturers/suppliers for the packaged lifting station.	Refer to the Typical LS and PS details, Refer to "Grundfos" or similar Package Lift Stations" from suitable Supplier	
49	7. Time period for preparing & submission of bids are found to be very short. Kindly request for extension of time for bid submission.	Will be informed by MoFT	





50	8. Discrepancy in the diameter size of manhole on drawings & BOQ. As per the drawings the dia of manholes are 1000mm however in the BOQ it has been stated that 600mm. Which one shall be governed?	The manholes are of size 1000 mm dia with a 600 mm dia access cover	
51	9. Discrepancy in the pipe material for water network on technical specification & BOQ. Specification section 2510, Part1, 1.02B, 1.03A and Part2, 2.01A states that water distribution pipes has to be uPVC material whereas the BOQ states that the pipe material shall be HDPE. As per the EPA guideline it has to be HDPE material. Hence MWSC will be quoting for HDPE pipe materials & fittings.	HDPE pipe shall be used as per MEE guidelines	
52	10. HDPE pipe dia 100mm and dia 80mm. Please specify whether this is OD, ID or ND?	This is ND	
53	11. As per the Specification section 2510, Part1, 1.02B, 1.03A and Part2, 2.01A the pressure rating for the pipes of water distribution has to be minimum 6bar. As per the EPA guideline the testing pressure has to be 9bars. MWSC will be quoting for high standard as per EPA guideline.	Pressure testing of Pipes in accordance with EPA guidelines	
54	12. Please explain the rain water collection process in detail. How is the rain water transferred to the storage tanks from the collection points?	Refer to The Detail Design Report for System Description	
55	13. STP is stated to be optional. Is it in the bidder's discretion to quote for it or not? Or even though it is optional will it be mandatory to be quoted? Is there a possibility of awarding the project including STP?	Bidder may quote for STP works. STP will be part of the full contract.	
56	14. In Kolamaafushi Island the sea outfall pump station & STP are located on two different ends of the island far apart and the outfall location is near PS. If the project is awarded with STP should it be effecting on the outfall location and pumping lines. If so how will the change will be addressed. Please include the sewerage line from PS to STP in the BOQ.	The LS and PS locations are finalized by Housing Ministry and Local Councils, Sewerage line can be included, any additional changes will be subject to client approval	
57	15. Discrepancies found on the sizes of GRP tanks on all islands. Because of this we are unable to quote for the item hence please advise which one to be followed?	Refer to the Respective Water tank drawing , sizes as per the required Volume.	
	<ul style="list-style-type: none"> Dimensions given on drawings are not matching (LAYOUT DIAGRAM and GRP WATER TANK) 	Refer to the Respective Water tank drawing , sizes as per the required Volume.	



	<ul style="list-style-type: none"> • Dimensions given on the drawings and BOQ are not matching. • Example of the details of GRP tank size given for 1 island is tabulated below. 	<p>Refer to the Respective Water tank drawing , sizes as per the required Volume.</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p>
58	<p>Kolamaafushi BOQ Drawing (Layout)</p> <p>Tank-1 15,500x10,000 8600x10,000x6000 mm</p> <p>Tank-2 5,500x10,000 2,900x10,000x6000 mm</p> <p>Tank-3 3000x5000 6,200x3,000x4000 mm</p> <p>Tank-4 3,000x3,0000 2,100x3,000x4000</p> <p>Tank-5 4,000x3,000 3,000x3,000x3000 mm</p>	<p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p> <p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p>
59	<p>16. As per our GRP tank manufacturer/supplier, the height of the tanks are limited to 5m and panel sizes comes in 1. m x 1m & 0.5m x 1m. Could you revise the design based on the availability of the item in market if not please recommend a supplier who could supply the tanks as per your design.</p>	<p>The contractor can select the Tank sizes as per the required volume subject to the approval from Client</p>
60	<p>17. Drawing "TYP.R.C DETAIL FOR ABOVE GROUND GRP TANK" gives reference to a slab layout of the tanks. Please provide the slab layout (including the dimensions details) which is found to be missing. Also please confirm the height of the RC foundation which is 2000mm as per the drawing as this is going to be a huge quantity of concrete.</p>	<p>It is 500 mm , applicable to all RC Foundations for the Tanks</p>
61	<p>Is this contract a works contract employing Measure and Pay basis or Lump Sum basis one?</p>	<p>The contract is a "Lumpsum" contract; clearly mentioned in the Pricing preambles of BOQ section.</p>

62	It refers to single stage two envelop procurement. If it is so, what is the basis of evaluation for Technical and Financial proposals?	Bid evaluation will be based on the criteria stipulated in Section III- "Evaluation and Qualification Criteria" of the Bidding document
63	What Technical proposals are to be submitted by the bidders?	Shall be as per Section IV- Bidding forms
64	What is the tax reimbursement policy on this project?	Shall be as per MIRA regulations
65	Financial effect of change in quantities measured by the contractor is to be borne by the contractor	This is a lumpsum contract. Any change in quantity during project execution will be addressed with Variation Orders.
66	There shall be an allowable leakage for pressure testing of pipes	Leakage allowance is mentioned in Specifications
67	Should the as built drawings be based on global coordinates?	Bench Marks will be provided at site by the Consultant. As built shall be based on these Bench Marks.
68	Is the work coming under this project tax exempted?	Tax not exempted. Tax will be applied as per MIRA regulations
69	Are the custom duties for imported materials tax exempted?	Refer to Tender Documents
70	How is the payment for the well carried out, if the contractor fails to obtain right quantity or right quality of water in the first drilling of a well?	pricing for 6 trail bore wells is mentioned in BOQ, Ref BOQ. Water Supply and Treatment Equipment, item D
71	Location for the tube well is not indicated in the drawing and need to be shown.	Refer to RO Plant Layout Drawing
72	Location of the extraction of water for the RO plant is not shown	Refer to RO Plant Layout Drawing

