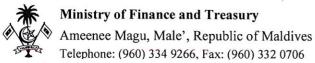
تبسم امندازحمن أرحيهم



وِيرِسَّ عَيْمِ بِرُو رِيَّرُدُ مِنْ عَالَمُومِ دُوِيرِدُ فِي ، دُوْ، بِرِهْرِيَّدُهُ

AMENDMENT 1

روس ورسم ا

No:	TES/2016/W-115
Project:	Provision of water supply facilities in Th.Guraidhoo, Dh.Kudahuvadhoo & Ga.Villingili
Issued Date	10th October 2016
المَّرَةُ عُمَّةُ الْمُعَامِّةُ الْمُعَامِّةُ الْمُعَامِّةُ الْمُعَامِّةُ الْمُعَامِّةُ الْمُعَامِّةُ الْمُعَام No. of Pages: -17	Boq: -04 Drawings: -09

وَا رَرَرُوْدُوْرِدُ وِ وَسَوْتُ مِي مِنْ وَمُرْوَدُونُ وَ وَمِنْ مِنْ وَمُرْوَدُونُ وَ وَمِنْ مِنْ وَمُرَوْدُونُ وَاللَّهُ وَاللّالِي وَاللَّالِمُواللَّالِمُ وَاللَّالِمُ وَاللَّهُ وَاللَّهُ وَاللَّهُ وَاللَّهُ وَاللَّهُ وَاللَّهُ وَاللَّهُ وَاللَّالِي وَاللَّهُ وَاللَّالِي وَاللَّالِي وَاللَّالَّالِ اللَّالِي وَاللَّالِي وَاللَّالِي وَاللَّالِي وَاللَّالَّا لَا

Please find attached answers to the queries raised for the subjected project

- Please find the attached Excel file of BOQ
- Please find the attached Drawings
- Letter of Bid (Word Format)
- Floor Meter Chamber Layout
- Fire Alarm Details
- Water Profile

Please be informed that the bid submission for the project has been postponed and now will be held on 25th October 2016 at 1130hrs local time.

バス Name: Aminath Juweriya

Signature:

Republic of M

Provision of Water Supply Facilities in Th. Guraidhoo, Dh. Kudahuvadhoo and Ga. Vilingili

Clarifications

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M.	0.000	No3		
FINANCEAN	0.016	П		
	224.14	Ω		
	3.957	S04		
	2.05	Hco3		
	0.000	Co3		
	0.0323	Sr		
	0.00	Ba		
	0.00	NH4		
	5.28	7		
	128.57	Na		
	7.47	Mg		
	1.99	Са		
	Permeate(mg/l)	lon		
are should be attached)	Design Software or similar software	Design Sof		
tion sheets obtained from Hydraulic Membrane Solution	and product flow rate. (Calculation	and produc		
flow and corresponding Heads required for pumps in order to achieve required quality	orresponding Heads re	flow and co		
iven in the section 6-B-2. Bidder has to propose rated	Expected product Flow rate is given	Expected p	(permeate), please inform.	
The expected Quality of Permeate water is given below.	ted Quality of Permea	The expect	Required water quality for product water	2
			informed, please submit data for sea water.	
		v	membrane projection? Only temperature of 30°C is	
	Provided as addendum	Provided a	RO-Plant: Sea water analysis to be used for	1

OF FINANCE AN			Filter"? Normally no filter is needed for concentrate	
oncentrate reject	Filters are not required for concentrate reject	Filters are	Filter for concentrate shown on P&I "Reject	7
			please confirm.	
			water at 30°C, should be minimum 904L or S32205	
		Corrosion	SUS304? This steel type is not suitable for sea	
ons. MSEP/ SUS304 is Suitable for Preventing	Please follow the specifications.	Please foll	Steel type for wetted parts is mentioned for	6
			two plants, BOQ show 1 item?	
			shows one RO plant, RO building drawings shows	
Two RO plants. Two drains. PI diagram is identical.	lants. Two drains.	Two RO p	One or two RO plants for each site? P&I diagram	Ŋ
	be met	quantity to be met	energy consumption?	
and instruments with necessary calculations. Specified water quality and	ments with necess:	and instru	equipped with energy recovery device for low	
Bidder has to propose the capacity of the Power Plant, relevant to their Pumps	s to propose the ca	Bidder has	Power requirements? Is the RO plants to be	4
			Maldives.	
			system in order to reach drinking water standard for	
			and high temperature might result in a two pass	
ate is not so high. So Single Pass Ro System enough	Temperature and recovery rate is not so high.	Temperatu	Required recovery is 55% +10%/-5%, this recovery	သ
	6.82	꾸		
	374.8	TDS		
2				
	0.50	Co2		
	0.01	Sio2		
	1.251	₿		

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Please follow the dimensions provided in the tender drawings earlier. The tank NC	16 GRP water tank & foundation drawing. Could you
	cost item.
	include it with mobilization & project management
Provided as addendum	15 Preliminaries bill is missing – Could you please
	time of obtaining this Tender Document?
Documents to be submitted are stipulated in the bid document.	What are the documents we need to produce at the
This is an International competitive bidding. Therefore except the overseas construction companies which the country of origin are boycotted by OFID can bid to this tender.	As we are an overseas construction company, do we stand eligible to Bid for this Project?
P&I Diagram	quality?
water is send through Cartridge filters to the Main Storage Tank as shown in the	Specifications? How to secure drinking water
Rain Water harvesting System is	Rain water harvest? Including in scope?
	drinking water usage!
Please follow the designs and spe-	Remineralization of permeate is missing for
110mm, Maximum Pressure 16 Bar	Specifications.
Yes. Brine Pump Details are Show in Drawings. In Sea Outfall, Diameter	Concentrate is pumped back to sea? How?
	filters direct.
tank, intermediate sea Water tank should be provided	be canceled to save power. Well pump can feed
Please follow the design drawings	9 Intermedia tank for sea water and feed pumps could
Two Tube Wells for each Site Shown in Drawings	8 Sea water well, included in scope? Specifications
	reject? Specifications

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FINANO	o If it is required, will it be acceptable for	
	specified until issue of Defects liability period.	
	provided by the contractor at his own cost as	
	you please confirm if this is mandatory to be	
	for the Engineer and site supervision staffs. Could	
	provide separate site office (furnished & equipped)	
	o 1.04 Site offices – States that contractor has to	
	and temporary controls	
Addendum BoQ is provided for General items	19 Specification Section 01500: Construction facilities	15
	for quoting.	
	currency. Please advise which currency to be used	
USD (refer the BoQ grand summary)	MVR. Whereas BOQ allows for quoting in only 1	
The individual items shall be costed in MRV and the final value is converted to	18 Currency of Bid (ITB 15.1) is stated as USD and	18
	helpful if the designer can provide design drawing.	
not applicable now.	it have a foundation & bund wall. It would be very	
The Generator set/Power plant is now removed from the scope. Therefore, this is	17 150cmb fuel tank – What is the type of tank? Does	1
	the foundation.	
	helpful if the designer can provide a plan view of	
	foundation or strip foundation. It would be very	
Tank is rest on the Reinforced Concrete Base as shown in the Drawing	drawing. Also please specify whether it's a raft	
type is now changed to RTP. Foundation drawing is provided as addendum. The	please confirm the dimensions mentioned in the	

Please refer the Amended BoO provided as addendum	RCC tanks as a design and build basis component? • Kudahuvadhoo
Please refer the addendum. Tank type is revised as RTP tank	25 What is the capacity of the water tanks? Is it acceptable to quote for steel bolted tanks instead of
	(miss match in the items as well as quantities). Could you please advise on this.
	matches in the BOQ of both islands when compared
	are typical for all 3Islands. However there are miss
Please refer the Amended BoQ provided as addendum	24 It is to note that RO building and Admin building
	facilities are to be built.
As per the dimensions provided in yard Pipe Drawing	23 What is the size of the land where water production
in all superstructures.	to be used for substructures and super structures?
Use Sulfate Resisting Cement in all substructures and Ordinary Portland Cement	22 Cement for the works; What is the type of cement
	Island to Male?
	transportation arrangements for the Engineer from
Please refer the BoQ addendum provided	21 Is it in the Contractors scope to provide
	accommodation for the Engineer?
Yes. BoQ addendum provided	20 Is it in the Contractors scope to provide
	in Islands.
	is some time very difficult to get separate facilities
	Engineer to share a site office with Contractor as it

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	to transier the cost in summary bill.
	As such we are not able to understand where
	 A detailed bill is found without a heading.
	not found in detailed Bills.
	(Rain Water Sump) bill stated in summary is
	 Bill nr 3 (Clear water sump) and Bill nr 6
	28 • Villingili
	to transfer the cost in summary bill.
	As such we are not able to understand where
T TOURS TOTAL WIP (XIIIAIIMAA 1908 bi Oxidana as anadalaalii	 A detailed bill is found without a heading.
Dlease refer the Amended Roo provided as addendum	not found in detailed Bills.
	(Rain Water Sump) bill stated in summary is
Please refer the Amended BoQ provided as addendum	 Bill nr 3 (Clear water sump) and Bill nr 6
	27 Guraidhoo
	where to transfer the cost in summary bill.
	As such we are not able to understand
	 A detailed bill is found without a heading.
Please refer the Amended RoO provided as addendim	is not found in detailed Bills.
	(Rain Water Sump) bill stated in summary
	 Bill nr 3 (Clear water sump) and Bill nr 6
	201

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Please measure from the yard Pipe Drawing	38 What is the distance from the island power house to	38
Villingilli- 3.125 m3/hr Kudahuvadhoo- 2.68 m3/hr Guraidhoo – 1.83 m3/hr	What is the capacity for pre-treatment of collected rainwater? m³/hr	37
Contractor has to connect Rain water collection system to existing Tanks. Normally Tanks located minimum 1.5 m elevation. Water goes under gravity to the rainwater Collection Sump.	and then transported to the plant location? Should it be gravity or pumping system? What are the storage capacities proposed at each collection point?	36
A provisional sum is provided. Engineer shall instruct bore holes or any other tests as and if required	Is there a provision for trial bore holes to be drilled? Is yes, how many needed to be drilled?	35
2 RO plants needed	34 How many plants needed? $\mathbf{a} \text{ m}^3/\text{day x } \mathbf{b} \text{ plants} = \mathbf{ab} \text{ m}^3/\text{day}$	34
Please refer section 6-B-1 and 6-B-2	33 What is the RO plant capacity? Total & each: m³/day m³/hr hrs/day	33
Please refer section 6-B-1 and 6-B-2	What is the total water demand for the island? m ³ /day	32
Rated capacity 3-17 l/hr Rated head 5 m TDH mi/stroke 0.1-0.8 Stroke/Minute 180-240	Please provide specification of dosing pumps including flow rate, strokes etc	31
Expected product Flow rate is given in the section 6-B-2. Bidder has to propose rated flow and corresponding Heads required for pumps in order to achieve required quality and product flow rate. (Calculation sheets obtained from Hydraulic Membrane Solution Design Software or similar software should be attached	Please provide Rated flow and corresponding Head values required for the pumps specified in the design drawings for both the islands	30
Please refer the Amended BoQ provided as addendum		29

50	49	48	47	46	45	44	43	42	41	40	39	
Water consumption, litres/person/day Minimum	Number of households?	Population growth rate, %	Latest population, year xxxx?	What is the pricing basis for Imported plant, machinery, equipment and items, INCOTERMS 2010?	Capacity of the booster pumps is not provided!	The General Item – which includes bonds & guarantees, insurance, etc. BoQ is missing	Rain water tanks – BoQ & specifications are not provided!	Size, quantity & requirement of the branch pipes (Household connections) are not mentioned in the drawings or BOQ.	Should the power plant have ATS panel?	Should we consider solar PV/ DG hybrid power plant? If yes, please provide specifications for the solar PV systems.	What is the capacity of the proposed power plant for the project? Please provide specifications.	the proposed plant building? This is need to size and cost the main feeder cable.
Please refer the Guidelines stipulated in the TOR issued by Ministry of Infrastructure and energy (Use following Link)	Willingilli 1154 Guraidhoo 470 Kudahuvadhoo 905	Please refer Section 6-A, Ps 1.04	Please refer Section 6-A, Ps 1.04	INCO Terms 2010 – CIP – to the respective Islands	Please see Specification	Please refer the Addendum with revised BoQ	Please refer the Addendum with revised BoQ	Refer BoQ item 1.058 and Drawing Guraidhoo/STD/12	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.	No. Provisions to be provided for future expansion	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.	

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	61	60	59	58	57	56	55	54	53	52	2	
Taile I iping Diawing is missing	Yard Piping Drawing is missing	Generator Room Drawing is missing	Fuel Tank Drawing is missing	Can we propose alternative material for construction of all tanks, we prefer GRP panel tanks	Should we consider an O&M period of one year?	Should there be any provisions to be made for 3rd party inspections?	Main roads and/or by-roads are paved, tarred or not	Administration building area, m2	Maximum excavation depth, m	Unaccounted water provision, % total	Additional demands for Industrial Institutional Commercial Parks	Average Maximum Designed
בוטאומכם מז ממטיוום מזוו	Provided as addendum	Not applicable now	No applicable now	Please refer the addendum. Tank is revised to RTP type	No. The project will be handed over to the Operator after completion.	Yes	Not in the scope. Please refer the BoQ for the internal paving	102	2.5m	Please refer the Guidelines stipulated in the TOR issued by Ministry of Infrastructure and energy (Use following Link) http://epa.gov.mv/index.php?option=com_content&view=article&id=1196:final-technical-spec-for-water-supply&catid=3:documents-and-downloads&Itemid=10	Infrastructure and energy (Use following Link) http://epa.gov.mv/index.php?option=com_content&view=article&id=1196:final-technical-spec-for-water-supply&catid=3:documents-and-downloads&Itemid=10	http://epa.gov.mv/index.php?option=com_content&view=article&id=1196:final-technical-spec-for-water-supply&catid=3:documents-and-downloads&Itemid=10



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68	67	66		65	ప	
In the Letter of Bid there is no place to mention Each single lot price. But it is Mentioned that the total bid price from the Summary of Bill of Quantities should be entered by the bidder	In the BOQ Grand summary, Rain water sump amount is equal to the 95% of the Clear water sump amount What is the logic in that calculation? Is it a provisional sum item?	There is an Item for Rain water sump (Item no.06) in Grand summary. But it is not included in the BOQ. Please clarify. Provide the items in Rain water sump.	not mentioned in the BoQ. PROJECT-DH.KUDAHUVADHOO WATER SUPPLY SCHEME	Water Flow meters to the RO Plant is missing Non-return valves quantity and its' chambers are	In Rainwater distribution system, First Flush devices are missing. Do we need to include these as well? If so, what is the respective quantity?	 where we need to include? Main feeder cables & respective other equipment such as yard lighting, building wiring & plant panels, controls and wiring detailed description is not provided in the BOQ. Is there a need for ATS Panel?
Revised letter of bid provided as addendum	Query is not clear. Clear water sump is revised to RTP tank. Revised drawings and BoQs are provided as addendum	Please refer the addendum with revised BoQ		Flow meter chamber Drawing provided here with. For each site one Floor meter is enough. Same as the Gate valve Chamber Drawing shows in Villingili/STD/o4	Yes. 5 per island. Shall include in the additions.	

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76	75	74	73	72	71	70	69	
Please provide the detail drawing of Lightning Protection. (Bill#5 Supply and installation)	Please provide the detail drawing of Fire Protection. (Bill#5 Supply and installation)	Please provide the detail drawing of 150m3 capacity fuel tank. (Bill#5 Supply and installation)	Please provide detail drawing of the power plant. (Bill#5 Supply and installation)	Please provide the detail drawing of non-return valve chamber.	What is the proportion of total bid price to be divided under local and foreign?	There is a summary page each lot. But no summary page for the total lot. Please clarify.	Please clarify the amount in foreign currency and local currency mentioned in the Letter of Bid. What is the Foreign amount to be inserted in Letter of Bid? What is the Local amount to be inserted in Letter of Bid?	inside this box. Please clarify.
Provided as addendum	Provided as addendum	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.	Same as the Gate valve Chamber Drawing shows in Kudahuvadhoo/STD/o4	in the discretion of the bidder	Grand summary is provided in the addendum	Refer ITB 15.1. Amounts in the discretion of the bidder	

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82	81	80	79	78	77
Please clarify the amount in foreign currency and local currency mentioned in the Letter of Bid. What is the Foreign amount to be inserted in Letter of Bid? What is the Local amount to be inserted in Letter of Bid?	In the Letter of Bid there is no place to mention Each single lot price. But it is Mentioned that the total bid price from the Summary of Bill of Quantities should be entered by the bidder inside this box. Please clarify.	In the BOQ Grand summary, Rain water sump amount is equal to the 78% of the Clear water sump amount What is the logic in that calculation? Is it a provisional sum item?	PROJECT- TH. GURAIDHOO WATER SUPPLY SCHEME There is an Item for Rain water sump (Item no.06) in Grand summary. But it is not included in the BOQ. Please clarify. Provide the items in Rain water sump.	Please specify the disposal location of excavated material.	Please provide the detail drawing of Hylish pump. (Bill#5 Supply and installation)
Refer ITB 15.1. Amounts in the discretion of the bidder	Revised letter of bid provided as addendum	Query is not clear. Clear water sump is revised to RTP tank. Revised drawings and BoQs are provided as addendum	Please refer the addendum with revised BoQ	A suitable location within the island will be identified to the winning contractor	This as a typo. Please read this as "High Lift" pump. The drawings and specifications have already been provided with the tender documents

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83 There is a summary page each lot. But no summary page for the total lot. Please clarify.	Grand summary is provided in the addendum
What is the proportion of total bid price to be divided under local and foreign?	in the discretion of the bidder
Please provide the detail drawing of non-return valve chamber.	Same as the Gate valve Chamber Drawing shows in Guraidhoo/STD/o4
Please provide detail drawing of the power plant. (Bill#5 Supply and installation)	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.
Please provide the detail drawing of 150m3 capacity fuel tank. (Bill#5 Supply and installation)	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.
88 Please provide the detail drawing of Fire Protection. (Bill#5 Supply and installation)	Provided as addendum
89 Please provide the detail drawing of Lightning Protection. (Bill#5 Supply and installation)	Provided as addendum
90 Please provide the detail drawing of Hylish pump. (Bill#5 Supply and installation)	This as a typo. Please read this as "High Lift" pump. The drawings and specifications have already been provided with the tender documents
91 Please specify the disposal location of excavated material.	A suitable location within the island will be identified to the winning contractor
PROJECT- TH. GURAIDHOO WATER SUPPLY SCHEME	We trust this should be Villingili
92 There is an Item for Rain water sump (Item no.06) in Grand summary.	Rain water tank BoQ is already provided with the tender documents

	But it is not included in the BOQ. Please clarify. Provide the items in Rain water sump.	
93	In the BOQ Grand summary, Rain water sump amount is equal to the 78% of the Clear water sump amount What is the logic in that calculation? Is it a provisional sum item?	Query is not clear. Clear water sump is revised to RTP tank. Revised drawings and BoQs are provided as addendum
94	In the Letter of Bid there is no place to mention Each single lot price. But it is Mentioned that the total bid price from the Summary of Bill of Quantities should be entered by the bidder inside this box. Please clarify.	Revised letter of bid provided as addendum
95	Please clarify the amount in foreign currency and local currency mentioned in the Letter of Bid. What is the Foreign amount to be inserted in Letter of Bid? What is the Local amount to be inserted in Letter of Bid?	Refer ITB 15.1. Amounts in the discretion of the bidder
96	There is a summary page each lot. But no summary page for the total lot. Please clarify.	Grand summary is provided in the addendum
97	What is the proportion of total bid price to be divided under local and foreign?	At the discretion of the bidder
98	Please provide the detail drawing of non-return valve chamber.	Same as the Gate valve Chamber Drawing shows in Villingili/STD/o4
99	Please provide detail drawing of the power plant.	The Generator set/Power plant is now removed from the scope. Therefore, this

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	Performance security is 10%	Whether the performance security is 5% or 10% of	108
NANCEANO	Will be discussed at the negotiation stage.	Also to confirm whether the payment shall be made through LC and who will bear the LC opening charges	
		For plant supplies and services the payment terms are not clear. Please elaborate.	107
	No Due certificate is not required to be submitted by bidders who are not registered in MIRA.	Since we are first time bidder in Maldives, we understand that this No due certificate is not required to be submitted by us. Please confirm	106
	Guarantee by a reputable International bank is acceptable.	Whether the bank guarantee as per bid security form given in the tender document issues by a reputed Indian Bank like ICICI/SBI/others in India shall be acceptable to you. Kindly confirm	105
	A suitable location within the island will be identified to the winning contractor	Please specify the disposal location of excavated material.	104
v.	This as a typo. Please read this as "High Lift" pump. The drawings and specifications have already been provided with the tender documents	Please provide the detail drawing of Hylish pump. (Bill#5 Supply and installation)	103
	Provided as addendum	Please provide the detail drawing of Lightning Protection. (Bill#5 Supply and installation)	102
	Provided as addendum	Please provide the detail drawing of Fire Protection. (Bill#5 Supply and installation)	101
	The Generator set/Power plant is now removed from the scope. Therefore, this is not applicable now.	Please provide the detail drawing of 150m3 capacity fuel tank. (Bill#5 Supply and installation)	100
	is not applicable now.	(Bill#5 Supply and installation)	

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Kindly provide taxes and duties as applicable to the imports of goods, material and plant supplies in Maldives under this contract. If it is exempted, kindly confirm. There is no information on the pre-Bid site visit. Please confirm the date and time of the Pre-Bid site visit, if applicable Lextend the bid submission date for at least by 2-3 weeks. Can we send out bid through courier for submission to given address? Please confirm. Inlet water for RO plant is bore well or Seawater? Bore well Kindly advice We need to know the water analysis reports for all the three islands (bore well and seawater) for designing the suitable RO plant There is no information on the pre-Bid site visit. Please confirm. Not applicable Not applicable Not applicable Not possible Ves. Can send trough courier. Bore well Designing is not in the scope. Bid Opening will be held on 25 th October 2016 at 1130hrs water analysis report
Kindly provide taxes and duties as applicable to the imports of goods, material and plant supplies in Maldives under this contract. If it is exempted, kindly confirm. There is no information on the pre-Bid site visit. Please confirm the date and time of the Pre-Bid site visit, if applicable Extend the bid submission date for at least by 2-3 weeks. Can we send out bid through courier for submission to given address? Please confirm. Inlet water for RO plant is bore well or Seawater? Kindly advice We need to know the water analysis reports for all the three islands (bore well and seawater) for designing the suitable RO plant
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COSTROOT SELOC COSTING

