بسم الله الرحمن الرحيم

Ministry of Finance and Treasury
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އަމީނީމަގު ، މާލެ، ދިވެހިރާއްޖެ

AMENDMENT 3

އެމެންޑްމަންޓް 3

ނަންބަރު No:	TES/2015/W-164
ޕްރޮޖެކްޓް Project:	Provision of Water Supply and Sewerage Facilities in R.Hulhudhuffaaru
ތާރީޚު Issued Date	20th January 2016

ސަފްޙާގެ އަދަދު No. of Pages: -01	ބީ.އޯ.ކިއު Boq: -00	ޑްރޯއިންގ Drawings: -00

Please include this amendment when submitting the bid. ބިޑް ހުށަހަޅުއްވާއިރު މި އަމެންޑްމަންޓް ބިޑްފޮތާއި އެކު ހުށަހަޅުއްވަން ޖެހިވަޑައިގަންނަވާނެއެވެ.

- 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 **<u>8th February 2016 at 1000hrs local time.</u>**

ނަން **Name: Aminath Juweriya**	ސޮއި **Signature:**

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އަމީނީމަގު ، މާލެ، ދިވެހިރާއްޖެ

AMENDMENT 3

އެމެންޑްމަންޓް 3

ނަންބަރު **No:**	TES/2015/W-165
ޕްރޮޖެކްޓް Project:	Provision of Water Supply and Sewerage Facilities in B.Thulhaadhoo
ތާރީޚް Issued Date	20th January 2016

ސަފްހާގެ އަދަދު No. of Pages: -01	ބީ.އޯ.ކިއު Boq: -00	ޑްރޯއިންގް Drawings: -00

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އަމީނީމަގު ، މާލެ، ދިވެހިރާއްޖެ

AMENDMENT 3

އެމެންޑްމަންޓް 3

ނަންބަރު No:	TES/2015/W-166	
ޕްރޮޖެކްޓް Project:	Provision of Water Supply and Sewerage Facilities in N.Velidhoo	
ތާރީޚް Issued Date	20th January 2016	
ސަފްހާގެ އަދަދު No. of Pages: -01	ބީ.އޯ.ކިއު Boq: -00	ޑްރޮއިންގް Drawings: -00

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އަމީނީމަގު ، މާލެ، ދިވެހިރާއްޖެ

AMENDMENT 3

އެމެންޑްމަންޓް 3

ނަންބަރު **No:**	TES/2015/W-167	
ޕްރޮޖެކްޓް Project:	Provision of Water Supply and Sewerage Facilities in Ga. Kolamaafushi.	
ތާރީޚް Issued Date	20th January 2016	
ސަފްހާގެ އަދަދު No. of Pages: -01	ބީ.އޯ.ކިއު Boq: -00	ޑްރޯއިން Drawings: -00

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#	Queries	Clarification	Name of the Island
1	MOC for lifting station tank- PE instead of GRP. Can this be acceptable	Alternative material proposal to be made during the execution stage to obtain the client approval with cost savings. For bidding purpose, follow the tender documents	
2	Diameter of the lifting station-1000mm instead of 1500mm. Can this be acceptable	No. Follow the tender documents	
3	Parameters of the pump	Refer to the tender documents	
4	Treatment plant capacities are different from island to island . But civil design drawings provided for the STP are found to be typical for all the islands. And there is a requirement of STP expansion up to 500 in the future. This requirement is structural/mechanical or both?	Mechanically only. Approved STP sizes to be verified with the civil drawings to ensure to accommodate the STP within the building as per the tender document	
5	***Bill of Quantities/Page no. 6/ 2.4.2 /Capacity of the plant:*** Capacity given in the BOQ is 365 m3/day expandable upto 1000 m3/day. But in the drawings, the capacity given in the notes is 365 m3/day expandable upto 700 m3/day. Kindly claify the capacity that needs to be expanded.	Capacity of 365 m3/day , expandable to 700 m3 /day.	N.Velighoo
6	***Application:*** Please let us know the application of treated water.	To be disposed off through Sea Outfall	N.Velighoo
7	***Dwg no. NV-SW-116/ Schematic flow diagram and mass balance:*** The following parameters are not available in the report. Please provide the same pH: COD: Oil & Grease:	**Influent Sewage Characteristics-** BOD5 - 250 mg/L COD5 - 250 mg/L SS - 300 mg/L OIL & Grease - 100 mg/L **Treated sewerage Quality-** BOD5 - 20 mg/L SS - 30 mg/L	N.Velighoo

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8	**Dwg no: NV-SW-116/Flow diagram:** Flow scheme consists of sludge thickener. But the same is not available in the layout as per the dwg no.NV-SW-117Kindly clarify.	Sludge Holding tank also functions as thickening Tank, therefore Separate thickening tank is not necessary.Only main process are shown on P & ID diagrams for Process description. Full process is shown in the STP Plant layouts. The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	N.Velighoo
9	**Dwg no: NV-SW-116/Flow diagram**: Flow scheme doesn't consists of chlorination tank. But the same is given in the layout as per the dwg no.NV-SW-117 Kindly clarify.	Chlorination tank to be considered. Only main process are shown on P & ID diagrams for Process description. Full process is shown in the STP Plant layouts. The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	N.Velighoo
10	**Dwg no: NV-SW-116/Flow diagram:** Quantity of mechanical fine screen is mentioned as 2 units, whereas in the layout (dwg no.NV-SW-117) it is given as 1 duty. Kindly clarify the quantity of the mechanical fine screen	Only 1 no of Mechanical Fine screen is needed	N.Velighoo
11	**Dwg no: NV-SW-116/Flow diagram**: Sludge discharge pumps transfer the sludge to effluent discharge tank. Why the sludge is mixed with treated water? Kindly clarify the application of the treated water	Sludge discharge pipe is led to Effluent Discharge Tank. Further Treated effluent is pumped to sea outfall location.	N.Velighoo
12	**Dwg no: NV-SW-117/ Overflow pipe 110mm:** There is a provision for overflow pipe from Holding tank to clarifier. The overflow from sludge holding tank goes to sludge drying bed. It is not advisable to let the overflow to pass into secondary calrifier. Please clarify	This is to reduce the BOD_5 level and SS levels in the System. . The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	N.Velighoo
13	RO plant & admin building size of water production system is not matching with the BOQ & drawings.	If the Aprroved RO Plant size doesn't conform to the Building sizes, Final Sizes of the Building to be as per RO Plant manufacturer recommendation along with supportive documents, subject to client's approval	

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14	RO plant & admin building size of water production system is not matching with the plan drawing & structural drawings.	If the Approved RO Plant size doesn't conform to the Building sizes, Final Sizes of the Building to be as per RO Plant manufacturer recommendation along with supportive documents , subject to client's approval	
15	In BOQ of B.Thulhaadhoo has seperate two items for RO Plant Builing in **"3.3.1.4 Design and construction of RO Plant Building including Generator room (Aprox = 32m2)"** and in **"3.3.4.1 RCC RO Plant Building, overall size approximately 7600mm x 4400mm, inclusive of all electromechanical items as shown on Drawings."** Please clarify this.	The item 3.3.14 "Design and construction of RO Plant Building including Generator room (Aprox = 32m2)" shall be deleted from the BOQ and the details of the same building can be referred from the modified item 3.3.4.1 "Design and Construction of RCC RO Plant Building (1 No.), overall size approximately 7600mm x 4400mm, inclusive of Generator room and all electromechanical items as shown on Drawings".	
16	In the BOQ of R.Hulhudhufaaru, N.Velidhoo and Ga.Kolaamaafushi under **3.3.4 RO Building,** 3.3.4.1 includes design of RO Building. Since RO plant building design already consists in drawings, is it required to provide price for design of RO building.	RO Plant Building design is included in the drawings for the item 3.3.4.1 in the BOQ of R.Hulhudhufaaru, N.Velidhoo and Ga.Kolaamaafushi.	
17	**DRAWING BT-SW-127:** Average flow rate mentioned in the diagram is 365 m3/day and peak flow rate is 1095 m3/day, whereas the flow rate mentioned under notes is 250 m3/day expandable upto 500 m3/day. Kindly Clarify	Average flow + Infiltration flow is 365 m^3/day. And Peak Flow of 1095 m^3/day. The Treatment plant shall consider Average Flow only for 15 Yr Period,and Expandable flow rate is for 35 yr average flow rate	
18	**DRAWING BT-SW-127 & BT-SW-1291/20/2016:** No of Mechanical fine screen mentioned in BT-SW-127 is 2 Nos., whereas the no of Mechanical fine screen mentioned in BT-SW-129 is 1 No. Kindly clarify	Both drawings show only 1 no of Mechanical Fine screen, Please Recheck	

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19	**DRAWING BT-SW-127 & BT-SW-129:** Oil Skimmer is not mentioned in BT-SW-127 but a sperate compartment for oil skimmer is indicated in BT-SW-129. Kindly clarify	Only main process are shown on P & ID diagrams for Process description. Full process is shown in the STP Plant layouts. The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	
20	**DRAWING BT-SW-127 & BT-SW-129:** Scum skimmer will be considered in the secondary clarifier as per BT-SW-129. Please be informed.	Yes, As shown on drawings. Scum skimmer is to be considered.	
21	**DRAWING BT-SW-127 & BT-SW-129:** As per BT-SW-127 a Sludge Thickening Tank with Transfer Pumps has been indicated which is missed in BT-SW-129. Kindly confirm the presence the Sludge Thickening Tank and Transfer Pump.	Sludge Holding tank also functions as thickening Tank, therefore Separate thickening tank is not necessary. Only main process are shown on P & ID diagrams for Process description. Full process is shown in the STP Plant layouts. The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	
22	**DRAWING BT-SW-127:** In Schematic Flow Diagram the Sludge discharge pipe is led to the Effluent Discharge Tank, whereas in the P&ID it is connected near the outfall. Kindly clarify the termination point.	Sludge discharge pipe is led to Effluent Discharge Tank. Drawing to be corrected.	
23	**DRAWING BT-SW-127 & BT-SW-129:** Chlorination Tank has been mentioned in BT-SW-129, which is not mentioned in BT-SW-127. Kindly clarify.	Chlorination tank to be considered. Only main process are shown on P & ID diagrams for Process description. Full process is shown in the STP Plant layouts. The layouts are for indicative purpose only. Treatment plant selection to be based on manufacturers recommendation subject to client's approval	

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24	Please provide the following parameters to design the system: pH - COD - Oil & Grease -	**Influent Sewage Characteristics-** BOD_5 - 250 mg/L COD_5 - 250 mg/L SS - 300 mg/L OIL & Grease - 100 mg/L **Treated sewerage Quality-** BOD_5 - 20 mg/L SS - 30 mg/L	
25	Main feeder cables in 4.1 covers control panel - pumps.(Distances not certain as they have to be measured using drawing with necessary tolerance to lengths)	Question not clear. Refer the Tender Document, page, item etc. to identify the discrepancy.	
26	Controls to be included in control panels. Only the level switches, pumps, and other items to be included in sewerage system.	Question not clear. Refer the Tender Document, page, item etc. to identify the discrepancy.	
27	As backup Generators requirements are already given in the electrical section	Question not clear. Refer the Tender Document, page, item etc. to identify the discrepancy.	
28	(issues) with the number of solar cells to be used?	Depends on the chosen supply vendor, who has to do the necessary cell sizing calculation	
29	for how long does the solar motor starter panel used ?	Depends on the chosen supply vendor	
30	During what time would it be used? (Note :- Only when soure is from the solar power station)	During the main power supply failure	
31	What is the ICB number in the each package	ICB No. is the advertisement number. (Advertisement number, TEB number and Name of the project should be included in the Bid Security.)	
32	**Drawing no NV-SW-106 :** Clarification 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	

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33	**Drawing no NV-SW-108**: Clarification in the Size of lifting station on drawings & BOQ. No size is mentioned on the drawings; however in the BOQ it has been stated that 1500mm. Clarify?	The drawing is to indicate the arrangement of the pumps in the lifting station and for size of the Lifting Station, refer to BOQ	
34	**Drawing no NV-SW-108**: Clarification on House connection detail	Only Inspection Chamber to be provided by Contactor. The existing compound wall on Typical Detail shown in Design Drawings is for indicative purpose only.	
35	**Drawing no NV-SW-105**:Clarification on Inspection Chamber drawing	The size shown on the drawing is 600 mm dia. The three details provided are self explanatory. So ignore the extra detail .	
36	As per the technical specifications in the tender document, it is mentioned that pipe are as per ASTM standards whereas in BOQ, the size of the pipe are as metric system (SI system). Kindly clarify	The pipe diameters mentioned in the design are Nominal Pipe Diameter (DN) and refer to the attached conversion table for finding the pipe sizes available in the market	
37	As per BOQ provided in the tender document, size of the HDPE pipe are mentioned as 80 mm diamter, whereas the available standard size of HDPE pipes are 75mm and 90 mm in diameter. Kindly confirm		

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