





Republic of Maldives

## **CLARIFICATIONS 02**

### **Request for Proposals**

**For**

**Design, Build and Operation of 10MLD Sewage Treatment  
Plant in Hulhumalé Phase 1**

**Maldives Urban development and Resilience Project**



**Issued on: 29<sup>th</sup> September, 2021**

**Issued by: National Tender  
Ministry of Finance  
Republic of Maldives**

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Ministry of Finance  
Male' Republic of Maldives

Maldives Urban development and Resilience Project  
Design, Build and Operation of 10MLD Sewage Treatment Plant in Hulhumalé Phase 1

**Clarifications 01**

The following table comprises the clarifications for the queries raised

Item No.	Clarifications / Question	Responses / Confirmation / Addendum
1	Request from you to accept <b>wastewater sludge digester references</b> for this requirement 4.4.b) The Proposer shall provide evidence that it has the experience in operating and maintaining successfully at least One (1) project for an odour control and In-Vessel Sludge Composting Plant to compost the daily production of dewatered sludge from the STP as described in Part 2: Employers Requirement (1.2.2).	Sludge digestion is an anaerobic process where a lot of biogas is produced and this is not acceptable. We are going for in-vessel sludge composting to promote aerobic digestion of sludge
2	A minimum number of Two (2) Operations contracts for sewage treatment plants that have been operating satisfactorily since commencement as a prime contractor, joint venture member, management contractor or subcontractor between 1 <sup>st</sup> January 2010 and application submission deadline. This JV requirement should meet by Lead Bidder. Kindly allow this requirement to be met by any JV member.	No, requirement should be met by lead bidder



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3	<p>The Proposer shall provide evidence that it has the experience in operating and maintaining successfully at least One (1) project for an odour control and In-Vessel Sludge Composting Plant to compost the daily production of dewatered sludge from the STP as described in Part 2:Employers Requirement (1.2.2).</p> <p>The mentioned criterion is highly restrictive for the participation of world-renowned firms with extensive experience in wastewater treatment and sludge digestion field. Kindly modify the criterion to: " The Proposer shall provide evidence that it has the experience in operating and maintaining successfully at least One (1) project for an odour control and sludge digestion/In-vessel sludge composting plant to digest/compost the daily production of dewatered sludge from the STP". Kindly allow this requirement to be met by a specialist subcontractor.</p>	<p>No, this modification cannot be allowed</p>
4	<p>Section IV-Proposal Forms includes Form EXP-4.3: Specific Construction Experience. However, we couldn't see any qualification criteria regarding this form in the table named Qualification: Qualification Criteria and Requirements. We kindly request you to clarify this issue.</p>	<p>Kindly refer to the RFP and Addendum 1</p>
5	<p>We kindly request you to extend the deadline for bid submission for at least 4 weeks due to the difficulties about Covid-19 pandemic.</p>	<p>Kindly refer to the Addendum 1</p>
6	<p><b>A minimum number of Two (2) Operations contracts for sewage treatment plants that have been operating satisfactorily since commencement as a prime contractor, joint venture member, management contractor or subcontractor between 1st January 2010 and application submission deadline. This JV requirement should meet by Lead Bidder.</b></p> <p>Kindly allow this requirement to be met by any JV member.</p>	<p>No. Requirement should be met by Lead Bidder</p>

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7	<p>The Proposer shall provide evidence that it has the experience in operating and maintaining successfully at least One (1) project for an odour control and In-Vessel Sludge Composting Plant to compost the daily production of dewatered sludge from the STP as described in Part 2:Employers Requirement (1.2.2).</p> <p>The mentioned criterion is highly restrictive for the participation of world-renowned firms with extensive experience in wastewater treatment and sludge digestion field. Kindly modify the criterion to:</p> <p>“The Proposer shall provide evidence that it has the experience in operating and maintaining successfully at least One (1) project for an odour control and sludge digestion/In-vessel sludge composting plant to digest/compost the daily production of dewatered sludge from the STP”.</p> <p>Kindly allow this requirement to be met by a specialist subcontractor.</p>	<p>This is a design &amp; build project and so contractor will have to workout these dimensions based on the water loading given on the RFP</p>
8	<p><b>We could not find any drawings in the bid document downloaded from your website. Hence please provide all the Drawings.</b></p>	<p>Refer to Addendum 1</p>
9	<p>You are aware of travel restrictions due to Covid. Also, we need to work out the cost after the site visit and collect relevant data. Hence, we request you to extend the bid submission date by one month from current date of September 16, 2021</p>	<p>Refer to Addendum 1</p>
10	<p>Please share your response circulated to the bidders till date to enable us to consider the same in our Bid</p>	<p>All the related documentation with regard to the project can be obtained from the below link <a href="http://www.finance.gov.mv/tenders">www.finance.gov.mv/tenders</a></p>
11	<p>As per tender list of laboratory equipment are provided in Annexure A, but list of laboratory equipments are missing in annexure A. Kindly provide.</p>	<p>Laboratory should be equipped to carryout pH, BOD, COD, TSS, Nitrate, Phosphates, Faecal coliforms, E-coli, residual chlorine, DO and Conductivity tests.</p>
12	<p>As per tender “The sewage from Phase 1 area shall be diverted by the Contractor to the proposed Sewage Treatment Plant (STP) by intercepting the pumping main system connected to the outfalls as suggested in drawing no. TTI/MUD/MAL/PL/ESN/001B.” Above drawing is not available in tender document, kindly provide.</p>	<p>Refer to Addendum 1. Please refer to page 188 of RFP document in PDF format</p>



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13	Treated discharge limited is not provided for phosphorus. Kindly provide.	Please adopt generally accepted levels
	As per tender document	
14	“The treated effluent shall be discharged into sea via outfall-1 and outfall-3 (New) located near Planktons Beach hotel and is approximately 1.5 km from the STP site. The outfall-2, located near Bus depot and approximately 0.5 km away from the STP, can also be used to discharge part of the effluent.” Please provide maximum quantity to be disposed to outfall 2.	Discharge quantity for each outfall should be such that the flow velocity inside the pipe is less than 3m/s and the total effluent volume is approximately equally divided among the 3 outfalls
15	Please clarify whether treated effluent disposal to outfall 2 is mandatory?	No . It is not mandatory
16	Please provide discharge level of outfall 1, 3 and outfall 2.	4m below MSL
17	The tender States inlet TN to be 75 ppm & Inlet P 17 ppm, which are on a higher side. Kindly confirm the inlet TN & P at the STP.	Please follow the requirement given in tender document
18	Tender specifies a range of min to max temperature, Kindly Confirm the design temperature for STP.	Water temperature will be 30 to 35 degree Celsius
19	Kindly confirm the discharge quality standard requirement for P(Phosphorous) in ppm.	Effluent P concentration can be taken as 2 mg/L
20	The Discharge BOD is given to be 5 mg/l in effluent requirements where somewhere else it is mentioned to be 10 mg/l( Clause 3.11.9.3). Kindly confirm the discharge quality standard requirement for BOD.	Effluent BOD can be limited as 20 mg/L
21	The Tender species a range for plant overload requirement for design. Kindly confirm the overload percentage to be considered for design.	15%
22	Kindly confirm that the STP has to be set up in the allocated area of 76.6 m x 84.5 m. Will additional area be made available in case bidder needs it for setting up the STP. Kindly confirm.	No, additional area will not be available



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23	We are really interested to know what will be the actually criteria of selection for winning bid?? If it's not Technical or Commercial without any Time frame is it this tender being proposed as Pilot scale project.	Kindly refer to the RFP
24	How Purchaser is justifying that Life cycle cost alone can become a criteria for evaluation the winning bid.	The project is for Design, Build and Operate. Hence, life cycle cost is a key component to be considered when selecting the winning bid
25	Achieving COD <5 is practically difficult and requires extensive post treatment that too with piloting backup and also will have impact on capex and opex. As long as wastewater is 100% domestic waste water without any industrial waste water contamination, we expect to achieve the COD of less than 50mg/l. Kindly Clarify	As per EPA guideline effluent can have BOD 20mg/l and TSS 30mg/l
26	We understand FC guarantee is for 10 MPN/100 ml. As per CPHEEO for non-edible crops 230 MPN/100 ml is required. Kindly Confirm	It is 10 MPN/100ml
27	Due to corrosive climatic condition, we recommend SS 316 MOC for wetted parts. Kindly check and Confirm	SS 316 material is acceptable
28	N-1 requirement will result in an additional volume/tank. Kindly check and confirm. As tender demands for retrievable grid, there will be no need to empty down the aeration tank or to take out of service during maintenance.	Additional tank is not needed
29	Kindly confirm whether we can optimize the SBR HRT (<21 hrs) without compromising on the outlet performance guarantee.	Yes. Contractor can reduce HRT time without compromising effluent quality.
30	Kindly confirm whether fixed grid is acceptable or shall we go with retrievable grid	We intend to go with retrievable grid
31	Effluent discharge requirement table does not specified outlet Total Phosphorous (TP) requirement. Shall we considered 2mg/l of TP at the outlet of SBR. Kindly Confirm	Phosphorous concentration can be limited to 2mg/l
32	<b>Tender does not specifies details about the effluent pumping station requirement. Kindly confirm whether we need to provide the same</b>	Effluent pumping system should be provided
33	As biological sludge contains less organic content, sludge dewatering unit can provide upto 18 to 20% of the dry solids	Dry solids upto 20% is acceptable
	End of Document	

