



Ministry of Finance

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Clarification 3

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No:	TES/2021/W-107	
Project:	Design, Build and Operation of 10MLD Sewage Treatment Plant in Hulhumalé Phase 1	
Issued Date	26 th October 2021	
No. of Pages: -11	Boq: -00	Drawings: -00

Please include this amendment when submitting the bid. بموجب هذا التعديل

Attached with, please find;

➤ Clarification 3

اسم: **Aishath Nadheema**

Signature:

Confidential





Republic of Maldives

CLARIFICATIONS 03

Request for Proposals

For

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

Maldives Urban development and Resilience Project

**Credit No. / Grant No.: No-6537-MV/No-D554-MV
RFP No: MV-MONPI-223416-CW-RFP**

Issued on: 26th October, 2021

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





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 I

Clarifications 03

The following table comprises the clarifications for the queries raised

Item No.	Clarifications / Question	Responses
1	Bidder Proposes to submit the Bid security as Insurance Bid Bond Guarantee, will the guarantee will be acceptable to Bidder.	Bid security in the form of Insurance bond is not acceptable. Please refer to Section II, ITP 19 and submit bid security as per the Form of Proposal Security - Demand Guarantee given in Section IV
2	As PER Section II – Proposal Data Sheet (PDS) Page No-40 - ITP 20-The Proposal shall be valid until 180 days (6 months) from the date of Proposal Submission A PRICE Deviations clause that post award on the date of signing the contract Purchase order any price variations in terms of Higher inputs cost shall be eligible for Claim in Running bills. The claim is eligible only for specific materials which are highly volatile in terms of market define prices.	Proposals should be valid for 180 days from date of submission. Price adjustment is only applicable for Operation Service stage and Asset Replacement. In this case, the price will be adjusted as per Section X – Contract Forms : Appendix 2 of Section 11 - Proposal data ITP 20.1



Item No.	Clarifications / Question	Responses
3	The Pumping station details has not been shared till now by Client, There are 10 No's of Pumping stations and there is no Pumps capacity or details or Piping installation criteria with Sizes. Please share the MWSC standards as well as Rerouting Scope of work in Pumping Station. We need Terminal Limits for All Pumping station where modification is being done.	Contractor is not required to make any adjustments to Pump Stations or Pumps. The existing outfalls can be tapped to divert the wastewater to STP for treatment. Once treated, the effluent from STP will need to be pumped back to the outfall pipe for discharging. Layout of these 2 pipes is given in the RFP. Each pipe is 400mm dia x 1500m long. Please refer to Addendum 2 Clause 2 (a)
4	In this Clause there are no criteria or Scope of definition mentioned for Precast Structure Process or Design procedure mentioned. Please provide a scope for Pre Fabricated or Precast structure if bidder wishes to opt for same.	Contractor shall use the British Standard (BS 8297) or equivalent to design prefabricated or precast elements. Please refer to Addendum 2 Clause 2 (b)
5	<p>Clarifications Required for specific list as per Item No in Clarifications #1</p> <ol style="list-style-type: none"> 1. In Vessel Process requires minimum of 14 Days and Maximum 21 Days based on tropical conditions. Hence the Compost Drying plan has to be provided or proposed by Client to create uniformity in price as well as O&M performance conformity. The Mixture of Wet Waste with Dry Waste is to be stipulated. Which will determine our cost factor with WAMCO transportation back charging 2. Can BIDDER be allowed to operate a Power plant as suitable from Post award to sustain the EPC and O&M period? If this is allowed what's the Charges for Fuel and Water at site on Per kWh Basis & per Kilo Liter. 3. Client has to indicate Per Month per Ton of Delivered Waste and also removal of Organic Manure. 4. Can the Disinfection system be replaced with Equivalent Environmental Technology like Ozone based or UV system 5. Client has clarified that Back charge but has not specified the Equipments List that is covered. Is pumping stations included OR NOT. 	<ol style="list-style-type: none"> 1) In-vessel composting of dewatered sewage sludge with organic fraction of municipal solid waste is proposed. Bidders to decide the mix of dewatered sludge and organic fraction of solid waste for process operation. Since the in-vessel composting plant is to be located next to the solid waste collection yard, availability of solid waste will not be an issue. Further drying of compost is not envisaged and the compost will be used for gardening. Bidders responsibility will be limited to operation and production of compost. 2) Space constraint limits establishing a power plant and therefore not considered. 3) Amount of sludge generated can be worked out from Influent flowrate of municipal wastewater to STP and the solid waste required for composting can then be estimated. 4) In order to economize operation and maintenance cost and to reduce operational complexities chlorination is the desired 5) Pump station is not included and pump stations are not operated by Contractor.



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Item No.	Clarifications / Question	Responses
7	<p>During Site Visit as on 20th October, 2021 we had requested following information's. Please clarify the same.</p> <ol style="list-style-type: none"> 1. Participants List in the Tender 2. Environmental Norms to be followed as per World Banks, Guidelines or Plan for Relocations of Trees and Earthworks. 3. Since some structure in below ground level above -1.5 Meters Elevation needs Dewatering, Is there any restriction or charges as applicable towards this activity. 4. In concept drawings some places it has been mentioned as DI (Ductile Iron). To ensure our understanding we wish to reconfirm that all transfer LINES from Pumping stations to STP as well as Internal STP interconnecting Lines is to be laid as following. Pressure Line Pipe is HDPE and Gravity Lines are UPVC. 5. There is road cutting and Asphalt Remove and Laying, Please share the tender specifications and stipulations. 6. During Site Visit we observed that Pumping station there is no access to enable us the process of estimating the Pumps capacity of Piping Details. We need Both Pump capacity and Pipe drawings for Pumping station where the modification is to be done. 7. We request Back Charging of electricity by stelco @6.65 MVR per Kilo Watt Hour from contractor during operation and maintenance period of the contract shall be waived off and claimed to bear the same at their own cost. <p>It is presumed that scope is limited to rehabilitation of outfall only and any work related to modification of existing pumps, wet well , related electrical and instrumentation works and its operation is not in the scope of this work.</p>	<p>1)Participant's list will not be provided</p> <p>2)All trees that are cut should be replanted in the STP site before completion of project. Please refer Appendix 1 Table 9.2 for details.</p> <p>3)Dewatering should be done with URA (Utility Regulations Authority) and the charges imposed can be checked from their website. Please refer to Addendum 2 Clause 2 (c).</p> <p>4)No ductile Iron is used. It is a mistake. Pressure lines are HDPE lines and gravity flow lines are UPVC lines. Pipelines mentioned as Ductile iron to be read as HDPE Lines Please refer to Addendum 2 Clause 2 (d).</p> <p>5)Road cutting and asphalt laying will not be required. The required piping work need to be done using underground service corridors. If required contractor is required to use horizontal drilling method for piping work. Please refer to Addendum 2 Clause 2 (e).</p> <p>6)Pump station modification is not required. Refer to Employer's Requirement Clause 1.2.3. Wet well and pump modification will be done only if approved by MWSC.</p> <p>7)No this cannot be done as requested. Refer to Employer's Requirement Clause 7.1.3.</p> <p>Yes, contractor is required to build and operate the STP only. The existing outfalls can be tapped to divert the wastewater to STP for treatment. Once treated, the effluent from STP will need to be pumped back to the outfall pipe for discharging. Layout of these 2 pipes is</p>



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Item No.	Clarifications / Question	Responses
	Please confirm.	give in the RFP. Each pipe is 400mm dia x 1500m long. Refer to Employer's Requirement Clause 1.2.3.
8	<p>If it need to modified and operated by contractor, please send details of existing pumps, size of wet well and plot so that its condition, suitability and power consumption can be calculated and cost can be included in the bid price.</p> <p>All fees related sludge composting raw material, its collection from site and final disposal has to be done by WAMCO and fee to be paid by contractor.</p> <p>Interactions with WAMCO do not yield any result as policy on such charges are not yet finalised and they are not in a position to provide any details.</p> <p>As operation and maintenance period is very long (10 years), it is not possible to bid without knowing these charges.</p> <p>As it is being implemented for the first time in Maldives, clarity on above will take time and involvement of multiple departments.</p> <p>To avoid any future contractual issues, it is requested to create a provisional fund and payment for above may be made through that provisional fund.</p> <p>Kindly accept and confirm.</p>	<p>Contractor is not required to do this work. Refer to Employer's Requirement Clause 1.2.3.</p> <p>Wet well and pump modification will be done only if approved by MWSC.</p> <p>In-vessel composting of dewatered sewage sludge with organic fraction of municipal solid waste is proposed. Bidders to decide the mix of dewatered sludge and organic fraction of solid waste for process operation. Since the in-vessel composting plant is to be located next to the solid waste collection yard, availability of solid waste will not be an issue. Further drying of compost is not envisaged and the compost will be used for gardening. Bidders responsibility will be limited to operation and production of compost.</p>
9		
10	<p>Tertiary treatment is mandatory. As revised discharge standard will be achieved through SBR, tertiary treatment may be made optional especially when reuse is not certain and to be discharged into sea.</p>	<p>Bidders are required to treat the wastewater to the discharge standards given in the RFP document and where the RFP document contradicts with EPA / URA standards, EPA / URA standards shall prevail. Refer to Addendum 2 Clause 2 (i)</p>



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Item No.	Clarifications / Question	Responses
11	<p>15% minimum percentages of total bid price is fixed for 10 years Operation and maintenance.</p> <p>It seems that this is decided without considering power charges during O&M.</p> <p>If power charges are put in contractor's scope, this percentage will go up substantially and percentages defined for other activities shall go out of the specified ranges specified by you.</p> <p>Request you to confirm, whether above percentages are without power charges.</p> <p>Price variation due to change in statutory changes</p> <p>We presume it will be given. Please confirm</p>	<p>Bidders are required to estimate the O&M cost considering energy, chemical, personnel and machinery required to operate the STP. Refer to Employer's Requirement Clause 7.1.3.</p> <p>Yes, it will be given as per ITP 15.3</p>
12	<p>Price variation due to change in raw material prices</p> <p>Reply said, it will given as per contract norms.</p> <p>As per ITP 15.3 page 40 - It is allowed.</p> <p>As per clause 20.3 page 40 Not applicable</p>	<p>Price shall be adjusted as per Section X – Contract Forms: Appendix 2 of Section 11 - Proposal data ITP 15.3</p>
13	<p>As clause 20.3 is related to price adjustment with respect to bid validity, we understand price adjustment shall be applicable as per indices quoted by bidders for EPC (Erection, Procurement and construction) as well as operation and maintenance (O&M) in line with clause 15.3 and Appendix 2 p-268.</p> <p>Kindly Confirm.</p>	
14	<p>Electricity charges during O&M</p>	<p>All operation costs should be borne by the contractor. Refer to Employer's Requirement Clause 7.1.3.</p>



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Item No.	Clarifications / Question	Responses
	<p>As per reply 'All operation cost should be borne by the contractor while as per clause 6.9.6.1 p-153 and p-272 it is excluded.</p> <p>As per clause 2.2 b ii it is included and shall be evaluated on present value basis.</p> <p>As contract clauses are contradictory, we Request you to clarify it again.</p> <p>As per clauses 49, electricity cost need to be indicated separately in price bid.</p>	
15	<p>As there is no mention of power cost in present price bid format, we presume it can be quoted in sheets of part 2 (operation service fees) and in summary of operation services.</p> <p>Please confirm.</p>	<p>Yes, that is correct.</p>
16	<p>As per clauses 49, electricity cost is defined as unit rate of 6.65 Maldivian ruffiya per Kwh.</p> <p>We presume, power cost can be quoted considering above rate only and no further taxes such as GST or any duties shall be applicable on it.</p> <p>Please confirm.</p>	<p>Yes, additional taxes will not be imposed. Section III 2.2 (b) (ii) modified to be read as "For power costs, Amount of required electricity consumption for operation of the STP as specified in functional guarantee by proposer. Unit rate of 6.65 Maldivian Ruffiya per kWh (inclusive of Tax and any applicable duties) shall be included in the Proposed price and indicated separately from other cost. At the time of the Contract signing, the electrical cost for Operation Service will be recalculated based on prevailing Government rate during negotiation and amended in the Contract with new rate. Please refer to Addendum 2 Clause 2 (j).</p>
17	<p>We understand being world bank funded project, import tax such as custom or any other duties are not applicable.</p> <p>Please confirm</p>	<p>Project is not duty free and this needs to be considered in bid price.</p>
18	<p>Is this sheet need to be filled by employer as mentioned under foot note with * mark.</p>	<p>This table is not valid and need not be filled.</p>



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Item No.	Clarifications / Question	Responses
	<p>If yes, at what stage bidder will be able to know the filled details.</p> <p>If no, What fixed percentage to be filled in A by the bidder.</p> <p>We understand that a range has to be specified by the employer and bidder or proposer has to choose a value within that range to make total as 1.</p>	
	<p>Please confirm and amend the sheet accordingly.</p> <p>Amount of Local currency also be filled whereas table A p-74 for local currency is written as not applicable. Please suggest whether local currency amount can be filled directly in the summary sheet keeping Sheet A Blank.</p> <p>Please clarify.</p>	<p>This table is not valid and need not be filled. Schedule of Adjustment Data, Table A. Design-Build Local Currency is not Applicable. Hence, local currency amount can be filled directly in the summary sheet</p>
19	<p>Further, provisional sums to be filled by the employer is also blank in all sheets, hence the scope for which the provisional sum will be allocated is not known.</p>	<p>Bidder to decide a percentage for Provisional Sum. Refer to Addendum 2 Clause 2(i)</p>
20	<p>Request you to declare the amount of provisional sum including the scope of work so that bidder should not include that in their bid prices.</p> <p>Chlorine consumption is mentioned as 0.0008 kg per cum of plant effluent. As standard related to coliform is very stringent, chlorine consumption will go upto 23 ppm which works out as 0.023 kg/cum.</p>	<p>Please follow the consumption rate given. Since, effluent is discharged to sea, chlorine dosing cannot be increased too much.</p>
21	<p>Request you to either allow UV disinfection system or revise the standard with respect to chlorine consumption as 0.023kg/cum in line with values mentioned in wastewater engineering by Metcalf and Eddy and US EPA.</p>	



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Item No.	Clarifications / Question	Responses
22	Please let us know the details proposed outfall and its general arrangement. We understand that if the existing disposal line is found feasible it can be utilised with some modification for emergency outfall.	The existing outfalls can be tapped to divert the wastewater to STP for treatment. Once treated, the effluent from STP will need to be pumped back to the outfall pipe for discharging. Layout of these 2 pipes is given in the RFP. Each pipe is 400mm dia x 1500m long. In case of an emergency where STP needs to be by passed, the terminal pump stations can be used to pump the wastewater to sea using the same outfalls.
23	Please accept and confirm There is a contradiction in the both mention clause. Please confirm the incoming pipe size is 400mm dia or 500 mm dia. (Ref: TTI/MUD/MAL/PL/ESN/001B and layout TTI/MUD/MAL/GA/STP/001)	It will be 400mm dia HDPE line. Please refer to Addendum 2 Clause 2 (f).
24	Also confirm the pipe M.O.C is HDPE or DI material. Please confirm the minimum depth of foundation for provided bearing capacities.	Allowable bearing capacity is 150kPa and Ultimate bearing capacity is 210kPa. Minimum foundation depth is 1.2m below natural ground level. Please refer to Addendum 2 Clause 2 (g)
25	Please confirm the mentioned item shall be provided in addition of Class C paint (concrete protection) for outer surface of sewage retaining tank.	Yes, it is provided in addition
26	We understand that 600 mm interlocking pavers shall be on 100 thick in Plain concrete and it is only all around the units placed on ground. Please confirm.	Yes, that is correct.
27	List of reference – Reynold RC Please also allow other reference like Moody chart. Please confirm whether separate boundary wall is to be constructed for STP and Compost plant or	Yes, that is allowed. Bidder may use other relevant reference. Please refer to Addendum 2 Clause 2 (k). Boundary wall should be provided for the entire plot but a partition wall should be provided between STP site and In-vessel composting.
28	a common boundary wall to is to be constructed for STP and Compost plant. Please clarify	



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Item No.	Clarifications / Question	Responses
29	<p>Please let us know the proposed location of the pipe line to be laid with respect to the paved road whether pipeline is to be laid by cutting the road pavement or in unpaved area available in part of the pipe route. We understand that road restoration/ other repair work shall be takeover by the client without any extra cost to the contractor.</p> <p>Please clarify.</p>	<p>Pipe laying will be done through underground service corridors already provided in the roads. Where the service corridors are inadequate, contractor may use HDD (Horizontal Directional Drilling) to lay the pipes. Please refer to Addendum Clause 2 (h).</p>
30	<p>In the addendum, as per Clause B "Minimum Value of the Project – USD 5 Millions as Capital Cost".</p> <p>We understand above value of the project is applicable to any current Sewage (STP) projects available with Bidder.</p> <p>Please confirm.</p>	<p>Yes, that is correct.</p>

