



CLARIFICATION 2

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ނަންބަރު No:	TES/2020/G-006-R02	
ފޮޓޮގްރާފީ Project:	Design, Supply and Installation of a Construction and Demolition waste processing plant - 2nd Retender	
ދިނުމުގެ Issued Date	17 th October 2021	
ސަފްޙާ ގެ އަދަދު No. of Pages: -09	ބޮޕް Boq: -00	ޖަހާފައިވާ Drawings: -00

Please include this clarification when submitting the bid

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Please find attached;

- Answers to the queries received.

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Name: Aminath Naheen Ahmed

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Signature:

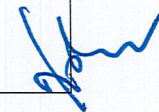


CLARIFICATION 02

#	Section/Clause	Clarification	Response
1		<p>As you specified in the ITB 13.4, Alternative technical solutions are permitted:</p> <p><i>"ITB 13.4</i></p> <p><i>Alternative Bids</i></p> <p><i>Alternative technical solutions shall be permitted for the following parts of the plant and services:</i></p> <p><i>Design, layout and sequencing of the components of the Construction and demolition plant."</i></p> <p>Our idea to present an ALTERNATIVE Technical Solution. The question is, should we have to present both solutions (ALTERNATIVE and ORIGINAL)? Or we can just present the ALTERNATIVE Technical Solution?</p>	<p>You can present only the alternative technical solution.</p>
2		Request extension of 10 days.	Please refer to Addendum no. 02 issued on 12 th October 2021.
3		To consult the construction plan or contract scheme.	It is up to the bidder to provide construction plan, drawings are just for orientation purposes, contract is made according section 8 and 9 of the bidding documents
4		To consult the market price of plant materials	Please provide further details on the question. A market study is ongoing but intended to the final operator (WAMCO).
5		Is there a requirement for dust removal in the factory building	No requirements, the building is an open shed (no doors, walls, windows)



6		To consult the construction measure fee and regulation fee requirement.	Please follow the following link https://my.hdc.com.mv/ The fees for service connection mainly depend on the requirements of the connection, please consult HDC, the land owner.
7	As PER Section 6 – Employer’s Requirements/ Section-1 Scope of Supply of Plant and Services This section contains the Scope, the Specifications, the Drawings, and Supplementary Information that describe the Facilities and Forms to be used during the implementation of the contract, as well as Personnel and Equipment Requirements.	Bidder wishes to clarify following 1. Design of Roof/ Shed for Protection from harsh weather does it means that we need to cover entire project space of any particular space as per any reference drawings, please indicate the covered area dimension or provide reference drawings.	Roof/shed should cover at minimum parts which are sensitive to stop or to hamper the input efficiency during heavy rainfall, as the dimension of the plant is provided by the bidder and the drawings are just for orientation purposes it is the bidder who should provide an effective area (or areas) to be covered by the shed (or portion of sheds). Additionally, an area of approx. 200 sqm (approx 15x15) should be covered in front of the plant (input). Output bunker should not be covered.
8	The scope of supply of plant and services consists of: • The Design, supply, erection and commissioning of a new and fully functional Construction and Demolition waste processing plant including all steel structures, ladders, stairs, platforms, electrical and control installations, health and safety features according to the general and particular technical specifications and requirements • The design of a roof/shed for protection against harsh weather conditions • The coordination and work supervision of all works and interfaces	2. Bidder in case himself the OEM can he keep stock of the spares and Wear parts that may be mandatory to be stoked in his own wares house in location that is close to Maldives. In case it is permitted what is the minimum shipping time allocated.	It is expected that all wear and spare parts are overhanded to the Employer and that the Employer is responsible for adequate storage. The spare and wear parts should be entirely available latest on the pre-commissioning of the plant (when the installation is finished).
9		3. If the System is Pre-assembled and Tested in OEM shop yard will the Inspection be considered as Training Routine in Contractual Terms.	No: it is considered as training routine when the plant is installed on site and staff have been trained by the contractor in operating the plant adequately




	<ul style="list-style-type: none"> • The procurement of a set of spare and wear parts for two years of operation • The training of Employers or Employers representative staff responsible for the operation of the plant 		
10	<p>As PER Section 6 – Employer’s Requirements/ Section-1 Specifications Sub Section- 1.3- CONTRACTOR'S SUPERINTENDENCE/ 1.3.1- Foreman for concrete works</p> <p>If structural concrete works are included in the Contract, the Contractor shall employ on the Site a Foreman who is suitably experienced in concrete works. The Foreman shall be on the Site at all times when concreting is in progress.</p>	<p>During Prebid Meeting it was indicated by the Client that 30cm RCC platform covering the entire plot size is already completed at site, do we still need to depute a Concrete Supervisor based on above information we would request client to waive off the mentioned clause.</p>	<p>It is mentioned that foreman is to be included if structural concrete works are included. If bidder is considering that no structural concrete works is to be provided from the bidder’s side then it is not needed.</p>
11	<p>As PER Section 6 – Employer’s Requirements/ Section-1 Specifications Sub Section- 1.4- SITE ESTABLISHMENT/ 1.4.7- Site utilities and access</p> <p>1) Temporary water, electricity, telephone, sewerage and drainage facilities shall be provided for the Contractor's use in carrying out the Works by the Employer. The Contractor shall make all arrangements with and obtain the</p>	<p>The Temporary UTILITIES AND FACILTIES are free of cost or else back charged in Running Bills, please clarify. if So that want is the rate of debit exercised.</p>	<p>Temporary utilities and facilities are not free of charge. Bidder is requested to inform himself and add necessary costs in the overall price schedule.</p>



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	necessary approvals from the relevant authorities for the facilities.		
12	<p>As PER Section 6 – Employer’s Requirements/ Section-1 Specifications Sub Section- 23.5 – WASTE MANAGEMENT / 23.5.1- Waste Management General Requirement</p> <p>(2) The Contractor shall be responsible for the control of waste within the Site, removal of the waste material arising from the Site and implementation of any mitigation measures to minimize waste or reduce problems arising from the waste produced on the Site.</p>	<p>Please confirm that Waste classification is not referred to process waste that are not use again and are to be discarded. As byproduct will also contain the waste and we understand that WAMCO is handling all such waste at free of cost operation with successful bidder, we would request client to amend the wording accordingly similar to Sub clause 25.3.3 & 4.</p>	<p>To avoid any confusion: Section 23.5 are general specifications referring to the <u>temporary construction/installation activities on site and not to the C&D waste plant under operation.</u></p>
13	<p>As PER Section 6 – Employer’s Requirements/ Section-1 Specifications Particular Technical Specifications (PTS) – Section 3- Climate and Rainfall</p> <p>The climate of the Maldives is influenced by the Asian monsoon as the country lies on the equator in the Indian Ocean. It is warm and humid throughout the year with temperature ranging between 25.5°C and 30.4°C and average relative humidity of 80%. The average annual rainfall is approx. 2000 mm and is expected to rise showing atypical patterns of intense rainfall during the rainy season and extended dry seasons. The two monsoons that govern the climate</p>	<p>Our Clarifications is following</p> <ol style="list-style-type: none"> 1. What the moisture content in Raw Waste C&D is as delivered to site. 2. Do we need to cover the entire storage area as well as project from perennial rainfall? 3. Are the equipment’s erected above ground on a concrete platform or Floor Please share the foundation details. 4. Should we Include Dryer in the system or Any PRE-HEATING PROCESS is envisaged by the client. 5. How to handle the Rain Water Ingress in Feed Material’s. 6. Does the Alternative Design allow WET process System. 7. Does Alternative design scope covers Lechate handling due to rain ingress in Feed stock materials. 	<ol style="list-style-type: none"> 1. min. 5% max 15% 2. see previous answer (only sensitive parts+ 200 sqm in front of the plant)) 3. plant should be fixed on the concrete platform (as build drawings will be shared with awarded bidder) 4. No 5. Items should be designed and installed according the information and input/output requirement as provided. All other aspects how the waste is brought, handled and operated is under the responsibility of the employer 6. Alternative design allows all process systems as long the input/output requirements are respected 7. the area is designed to drain any type of leachate from material which is not covered by a shed. 8. No 9. we don’t think its necessary 10. bidder should consider the covering of this area too



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are Iruvai, the Northeast monsoon (dry season) that extends from January to March and the Hulhangu, Southwest monsoon (wet season) that extends from mid-May to November. The month of December and April are considered as monsoon transitional periods. Surface currents and winds, humidity, rainfall, temperature and salinity are strongly affected by the monsoons. Daily rainfall data supplied by the Employer for Hulhule Male for the period starting from Jan 1975 to Dec 2016 (42 years) were used to identify maximum annual daily rainfalls and they were subjected to extreme value analysis. Figure 1 shows annual daily maximum rainfall and Figure 2 shows distribution extreme rainfall over return period.

8. Do we have any Dust Suppression System using any Rain Water harvesting
9. Please share the site drawings along with proposed design model concept in terms of hydraulic flow and elevations.
10. Are the raw materials stored or handled outside the covered shed or inside the covered shed?



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14 GENERAL Query

During pre-bid meeting discussion, please clarify the same.

1. Participants List in the Tender
2. Plant and machinery which already exists in site.
3. Bag opener is indicated but details have not been shared.
4. Organic composition in the raw materials.
5. Power Incomer SLD or Maximum power available at site and how to interface.
6. Environmental Aspects related system of any applicable.
7. Wet Process Design if Any to be provided as Alternative Design.
8. Input Material Chemical and Physical Composition report.
9. Propose site layout and Equipment's 3 D model Rendering for better understanding,
10. Back charges as applicable for overall services from client end from Contract award to Handing over stage.
11. Extension of Time in case the responses are not received in well stipulated time as feasible by Client.
12. Layout Drawings and Annexure Drawings for system for Information.

1. Participant list is disclosed and not intended to be seen by other bidders
2. Wheel loader, waste handler, roll on-/Roll off trucks. Tank truck
3. min 50 t/h efficiency >> 99%
4. negligible
5. Actual supply and SLD is attached, however additional power connection could be provided after knowing exact requirements from the contractor
6. N/A
7. see previous answers
8. Not existing
9. See attached
10. N/A
11. see previous answers
12. provided



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15		<p>Due to the influence of COVID-19, we have to mail our bidding documents to you instead of submit them by person. And unfortunately, it will take at least 10 days to mail the bidding documents, which is further exacerbating the already tight preparation time. We have done a lot of preparatory work for the project and have strong experience and references in housing construction especially steel structure construction and waste treatment, however, in order to provide the project with a more perfect technical scheme and an accurate quotation, and shorten the workload and losses that may be caused by mismatch with the project requirements, we appreciate if you could consider to postpone the deadline by 10 to 15 days.</p>	<p>Please refer to Addendum no. 02 issued on 12th October 2021.</p>
16		<p>And I want to confirm the beneficiary name and address. Is the beneficiary name ministry of finance? What is the beneficiary address?</p>	<p>Ministry of Finance Ameenee Magu Male', Maldives</p>
17		<p>On moisture in the feed material, is there any maximum value permitted, knowingly even a small percentage will hamper the entire process, in case only dry separation is being considered? To formulate a proper offering of what is necessary this level must be indicated.</p> <p>If the concept of the plant is not entirely wet processing (which is not precluded in the tender, but not referred to in crucial parts, such as i.e. final recycled product quality), can you indicate the limits of impurities accepted for aggregates and recovered sand? Rejection of the recycled material as</p>	<p>As per requirement the processed mineral fraction will be used as concrete aggregate for <i>non-structural applications</i></p> <p>1. Moisture content (5%) max. 15% (input material)</p> <p>As per requirements in section 6 the content of non-mineral contraries in the fraction smaller than 10 mm shall be less than 1% by weight.</p> <p>breakdown:</p> <p>Maximum content of foreign materials 5%</p> <p>Maximum metal content 1%</p> <p>Maximum content of organic impurities 1%</p> <p>Maximum content of sulphates expressed as SO₃: 1%</p> <p>Silt percentage < 8%</p> <p>no other requirements than those formulated above</p>



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end product must be avoided and the exact product requirement are needed for proper offering.

Can you indicate the exact silt percentage in final recycled sand product permitted? This will be the most valuable recycled end product and silt percentage must meet the needs of the construction industry.

Is there a demand of removal of sticky and/or others particles from i.e. plastics or paper?

To understand better the questions above and enabling you to answer accordingly, we attach video links of waste recycling plants based on wet processing, which -again- is not precluded in the tender, but no extensive indication of specifications and parameters are given for, enabling to formulate an offer according to the requirement (which is presently not appropriately formulated, especially regarding end recycled products).

<https://youtu.be/OXJGbyRg210>

<https://youtu.be/GKwU8O13C5o>

<https://youtu.be/W7PpemI2o-8>



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