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| PROJECT NAME AND CREDIT NO: | ASAT WASTE MANAGEMENT AND SEWAGE PROJECT – CTR1084 |
| NAME OF THE CONTRACT AND INVITATION TO BID NO: | ASAT/C1 WASTE SLUDGE INCINERATION AND ENERGY RECOVERY FACILITY PROJECT |

The provisions of these "Clarifications Request" are issued in response to requests for clarification submitted in writing by prospective applicants in order to provide the necessary explanations to certain situations in the Initial Selection Document.

CLARIFICATION FOR REQUESTS NO.1

| No. | Initial Selection Document Page Number | Relevant Clause in the Initial Selection Document | Prospective Applicants' Question or Clarification Request | Employer's Response | Amendment to Initial Selection Document Required YES or NO (If "YES", please specify the Amendment Number) |
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| 1 | Page 20-21 | Section III – Initial Selection Criteria – Table 1 – Qualification Criteria - 4.2 Specific Experience | Regarding the Initial Selection Document Section III – Initial Selection Criteria item 4.2 Specific experience, design and construction of sludge incineration plant with incineration technology in fluidized bed Capacity ≥ 200 tons/day of sludge and operation of sludge incineration facility. Is it possible to consider design, construction and operation of utilized fluid bed drying system as a similar contract? | <p>No, Fluidized Bed Incineration Facilities will be acceptable as specific experience.</p> <p>Regarding Section III- Initial Selection Criteria Item 4.2 Specific Experience:</p> <p>Contracts for Works: Design and Build</p> <p>Experience for design and construction of sludge incineration plant in 1 (one) contract with minimum value US\$ 20,000,000</p> <p>The contract required above shall meet the following minimum key requirements:</p> <p>Incineration technology: fluidized bed Capacity ≥ 200 tons/day of sludge.</p> <p>The Plant should include energy recovery and flue gas treatment systems.</p> <p>Contracts for Operation:</p> <p>Experience for operation of sludge incineration facility in minimum 1 contract with minimum value</p> | NO |

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| | | | | <p>US\$ 1,500,000 and with a minimum duration of 1 year</p> <p>The contract required above shall meet the following minimum key requirements:</p> <p><u>Fluidized bed sludge Incineration plant.</u></p> <p>The plant should include energy recovery and flue gas treatment systems.</p> <p>The operation period should include training and commissioning.</p> | | | | | | | | | | | | | |
| 2 | Page 9-14 | <p>Section I-Instructions to Applicants</p> <p>Item 17.2</p> <p>Section II-Initial Selection Data Sheet (ISDS)</p> <p>ITA 17.1</p> <p>ITA 19.1</p> | We kindly request you to extend the deadline for application submission. | Please see Amendment No.1. Item 1 and 3 | YES | | | | | | | | | | | | |
| 3 | Page 57-58 | <p>PART 2 - Section VII- Employer's Requirements- 1.3 Current WWTPs Sludge Production, Treatment and Disposal</p> | <p>We understand the sludge mentioned in Table 2 as raw sludge. We think that the expression Hurma and Lara "dried sludge" mentioned in the last part of the table should be the equivalent of "dewatered sludge" sent to the drying facility. Otherwise, it would be wrong to deduct the dried sludge from the total dewatered sludge when finding the net remaining dewatered amount. Since the calculated net dewatered sludge amount is correct, there is no problem for the parties participating in the tender.</p> <p>On page 58, second to last paragraph, it is stated as "120 t/d dried sludge: 90 - 92 % DM". Since the values in Table 2 are dewatered wet sludge, 120 t/d should be the amount of sludge entering the drying process. In this case, 90 - 92 % DM dried sludge should be lower. Already, the 25 - 30 t/d mentioned in the next article, avg. 90 % DM, the amount sent to the cement factories means that 25 - 30 t/d dry sludge is obtained from 120 t/d dewatered amount.</p> | <p>Regarding Section VII- Employer requirements related lines of Table 2 on page 57 indicated as follows;</p> <table border="1"> <tr> <td>TOTAL (dewatered Sludge) (a)</td> <td>454</td> <td>676</td> </tr> <tr> <td>Dried Sludge of Lara WWTP (b)</td> <td>60</td> <td>80</td> </tr> <tr> <td>Dried Sludge of Hurma WWTP(c)</td> <td>60</td> <td>40</td> </tr> <tr> <td>Total Dried Sludge Amount in Existing Drying Facility [d=(b+c)]</td> <td>120</td> <td>120</td> </tr> </table> | TOTAL (dewatered Sludge) (a) | 454 | 676 | Dried Sludge of Lara WWTP (b) | 60 | 80 | Dried Sludge of Hurma WWTP(c) | 60 | 40 | Total Dried Sludge Amount in Existing Drying Facility [d=(b+c)] | 120 | 120 | NO |
| TOTAL (dewatered Sludge) (a) | 454 | 676 | | | | | | | | | | | | | | | |
| Dried Sludge of Lara WWTP (b) | 60 | 80 | | | | | | | | | | | | | | | |
| Dried Sludge of Hurma WWTP(c) | 60 | 40 | | | | | | | | | | | | | | | |
| Total Dried Sludge Amount in Existing Drying Facility [d=(b+c)] | 120 | 120 | | | | | | | | | | | | | | | |

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| | | | | <table border="1"> <tr> <td>NET Dewatered Sludge to be sent to Waste to Energy Plant e=(a-d)</td> <td>334</td> <td>556</td> </tr> </table> <p>It means that, 120 tons/day dewatered sludge is sent to the existing sludge drying plant to be dried. % 17-20 DM dewatered sludge with the amount of 120 tons/day is being dried to % 90-92 DM with the amount 25-30 tons/day in existing sludge drying plant.</p> <p>We would like to state that the existing drying facility will be operated separately from the new waste to energy facility. As stated in the table above, the 120 tons/day dewatered sludge capacity of the existing sludge drying facility should be subtracted from the total amount of sludge. Remaining net amount of dewatering sludge will be sent to the new waste to energy facility.</p> | NET Dewatered Sludge to be sent to Waste to Energy Plant e=(a-d) | 334 | 556 | |
| NET Dewatered Sludge to be sent to Waste to Energy Plant e=(a-d) | 334 | 556 | | | | | | |
| 4 | Page 60-68 | <p>PART 2 - Section VII- Employer's Requirements- Table 3- Characteristics of Sludge in Districts and Center WWTPs</p> <p>PART 2 - Section VII- Employer's Requirements- 2.4 Specific Requirements of the Waste to Energy Plant – e.</p> | <p>Hurma plant raw sludge LHV value is 3800 kcal/kg and digested sludge LHV value is 3500 kcal/kg have been indicated in the table 3 which included in sludge properties. Should not the LHV value of digested sludge be lower due to biogas production? Even if biogas production is mainly occurred from the decrease in the amount of sludge, this value seems to indicate that the digestion process is not executed efficiently. Heat values of digested sludge is generally 2500-2600 kcal/kg in other cities. Since the tender participants will only incinerate raw sludge, this point may not be important, but we would like to mention it because it can create confusion in terms of understanding the overall system.</p> | <p>As indicated in Table 3, the LHV of Hurma biological sludge is 3800 kcal/kg and LHV of Hurma digested sludge is 3500 kcal/kg.</p> <p>Please be informed that the parameters' values of the sludge characteristics indicated in Table 3 have been obtained from results of the related sludge analysis carried out by the Employer.</p> <p>We kindly state that the <u>digested sludge</u> of Hurma WWTP will be sent to the new waste to energy facility as indicated in <i>Section VII, Employer's Requirements</i>.</p> <p>Besides, the Employer have the intention to examine new sludge samples with the presence and witness of the prospective short-listed applicants to seek operational functional guarantees before the submission and the technical and financial proposals.</p> <p>Related to Hurma WWTP's biological and digested sludge; prospective short-listed bidders may take their own samples simultaneously for their independent examination.</p> | NO | | | |

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| 5 | <p>Page 13,14 Page 27 Page 45 Page 66</p> | <p>Section-II, Initial Selection Data Sheet ITA 11.1(d)</p> <p>Section III-Initial Selection Criteria-Table 2-Rated Criteria-3-Contract Management Capability, Form CMC</p> <p>PART 2 - Section VII-Employer's Requirements- 2.3- Main Characteristics and Requirement of the Plant</p> | <p>Since the average raw sludge with 17 % DM will not be possible to dry and incinerate with its own energy without auxiliary fuel as you foresee if conventional dryers such as belt dryer or rotary dryer are used. According to another calculation, the lower heat value of 1 ton of 90 - 95 % DM 3486 kcal/kg sludge is 3.486.000 kcal/t. While obtaining 1 ton of 91 % DM dry sludge from approximately 5,376 tons of 83.1 % moisture sludge, 4,376 tons of water must be evaporated. In order to evaporate 1 ton of water, 5251 kWh (4.515.860 kcal/t evap.) heat will be required in a classical drying system consuming approximately 1200 kWh thermal heat. Please clarify.</p> | <p>Please be informed that main characteristics and requirements of Plant has been defined in Section VII-Employer Requirements-Table 5.</p> <p>Furthermore, brief descriptions for related mass and energy balance of applicants' proposed system will be evaluated according to Section III-Initial Selection Criteria-Table 2-Rated Criteria-3-Contract Management Capability, Form CMC and Section-II, Initial Selection Data Sheet ITA 11.1(d).</p> <p>At this stage of the bidding procedure, we are seeking for the most experienced prospective applicants. Further, technical considerations and/or if necessary, revisions will be assessed and shared with the prospective short-listed applicants.</p> | NO |
| 6 | <p>Page 20-21 Page 25</p> | <p>Section III – Initial Selection Criteria – Table 1 – Qualification Criteria - 4.2 Specific Experience</p> <p>Section III – Initial Selection Criteria – Table 2 – Rated Criteria</p> | <p>In accordance with ITA 27.1 Evaluation and Initial Selection of Applicants, The Employer will initially select maximum 7 number of applicants. During this selection procedure each applicant will have score based on the Number of Similar Contracts which is denoted as N. In case of a JV applicant, whether each member of JV has similar contract/contracts with number x for Lead Partner and with number y for other member as specified in Table 1-4.2 Specific Experience. Our question is, Will the total number of x + y be taken into account for determining the Number of Similar Contracts N?</p> | <p>Yes, total number of each member of JV's specific experiences will be evaluated during the scoring evaluation stage.</p> <p>Regarding Section III- Initial Selection Criteria Item 4.2 Specific Experience:</p> <p><u>Contracts for Works: Design and Build</u></p> <p><i>Experience for design and construction of sludge incineration plant in 1 (one) contract with minimum value US\$ 20,000,000</i></p> <p><i>The contract required above shall meet the following minimum key requirements:</i></p> <p><u>Incineration technology:</u> fluidized bed Capacity ≥ 200 tons/day of sludge.</p> <p><i>The Plant should include energy recovery and flue gas treatment systems.</i></p> <p><u>Contracts for Operation:</u></p> <p><i>Experience for operation of sludge incineration facility in minimum 1 contract with minimum value US\$ 1,500,000 and with a minimum duration of 1 year</i></p> | NO |

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| | | | | <p><i>The contract required above shall meet the following minimum key requirements:</i></p> <p><u><i>Fluidized bed sludge Incineration plant.</i></u></p> <p><i>The plant should include energy recovery and flue gas treatment systems.</i></p> <p><i>The operation period should include training and commissioning.</i></p> <p>Please be informed that if an applicant submits a bid as a joint venture, the lead partner must meet the minimum specific experience qualification of 4.2 specified above at least.</p> <p>Besides, if the number of long listed applicants > 7, the Employer will evaluate all long-listed applicants against to Table 2, Rated Criteria.</p> <p>During the scoring evaluation stage, if the other partners of any JV applicant also meet the above minimum requirements, the combination of all members' experiences will be evaluated as stated in Table 2, Rated Criteria scoring remark.</p> | |
| 7 | <p>Page 9-14</p> <p>Page 16-24</p> <p>Page 55-70</p> | <p>Section I-Instructions to Applicants</p> <p>Item 17.2</p> <p>Section II-Initial Selection Data Sheet (ISDS)</p> <p>ITA 17.1</p> <p>ITA 19.1</p> | <p>As a result of the bidding activities related to the project, we kindly request an extension of time due to several issues.</p> <p>1. Firstly, due to the New Year holidays, our contacts with companies abroad coincided with a very short period of time, which made it difficult to hold sufficient meetings. Secondly, we are currently experiencing some other issues that we would be happy to discuss with you in more detail.</p> <p>2. We appreciate your understanding and cooperation in this matter. As a holistic solution that encompasses design, process, and operation is required for this project, we kindly request an extension of the bidding period. This is due to the insufficient time available for the creation of business partnerships within a holistic framework, as well as the determination of value-adding solutions and joint venture negotiations with relevant companies. Thank you for your understanding.</p> <p>3. There are various alternative processes available that offer innovative and holistic solutions in terms of total cost of ownership and sustainability, as opposed to incineration technologies that have been</p> | <p>Regarding to time extension request, please see Amendment No.01, Item 1 and 3.</p> <p>Related to 3rd and 4th clarification requests, we would like to inform that general and special experiences have been specified in Section III, Initial Selection Criteria, Table 1- Qualification Criteria.</p> <p>The Employer expects applicants to meet all the qualification criteria indicated in Part III - Initial selection Criteria, Table-1, including specific experience in 4.2.</p> | NO |

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| | | <p>Section III, Initial Selection Criteria, Table I- Qualification Criteria.</p> <p>PART-II Section VII- Employer's Requirement</p> | <p>previously used in sewage sludge disposal and recovery but do not provide the desired performance values in terms of efficiency and sustainability. In this project, we aim to propose alternative technologies to incineration. In this regard, we kindly request your evaluation of the solution proposals, particularly with regards to the proposal of alternative innovative green environmental solutions that align with the objectives of the Paris climate agreement and the EU Green Deal requirements.</p> <p>4. We kindly request that the required company qualifications and completed projects be kept broad, and that the companies' completed projects and references in the field of Environmental Technologies be accepted. We believe that only accepting completed projects related to sludge incineration processes would be anti-competitive and restrictive.</p> | <p>Besides, main characteristics of new waste to energy plant and Employer's technical approach have been defined in Section VII-Employer's Requirement.</p> | |
| 8 | Page 20-21 | <p>Section III – Initial Selection Criteria – Table 1 – Qualification Criteria - 4.2 Specific Experience</p> | <p>Is it possible to meet key activity under item 4.2 Specific Experience given in section III with a specialized subcontractor?</p> | <p>No. In accordance with the Section -III Initial Selection Criteria, Subcontractor's experience will not be accepted during the evaluation of initial selection.</p> <p>However, during the construction phase, subcontractors may be hired for some parts of the work, provided that all responsibility are under the prospective contractor.</p> | NO |
| 9 | <p>Page 10-14</p> <p>Page 20-21</p> | <p>Section I-Instructions to Applicants</p> <p>Item 24</p> <p>Section II-Initial Selection Data Sheet (ISDS)</p> <p>24.1</p> <p>Section III – Initial Selection Criteria – Table 1 – Qualification Criteria - 4.2 Specific Experience</p> | <p>In accordance to Section I-ITA Item 24 Subcontractors, in sub clauses 24.1 and 24.2 are described Nominated Subcontractors and Specialized Subcontractors. Also, in sub clause 24.3 is indicating that, if Employer decide to permit subcontracting for certain specialized works as indicated in Section III 4.2 – Experience. The specialized subcontractors experience shall be considered for the evaluation. Section III, Initial Selection Criteria, describes the qualification criteria for subcontractors.”</p> <p>In accordance to Section II-ISDS Item 24.1 states that Employer does not intend to execute certain specific parts of the contract by subcontractors selected in advance by the Employer (nominated subcontractors).</p> <p>Could you please clarify also if Employer may permit subcontracting for certain specialized works by specialized subcontractor and the experience of the subcontractor's can be considered for the evaluation?</p> | <p>Please see answer No.09</p> | NO |

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| 10 | Page 57 - 58 - 66 | Section VII – Employer’s Requirements – Table 2 WWTP Sludge Production in Antalya Province Table 5- Main Characteristics and Requirements of Plant | The specifications ask for a design for 500 ton/day dewatered sludge incineration at min 8.000 hrs. per year on Table 5 on page 68. However, the table 2 on page 59 for sludge amounts indicate 556 tons/day in summer season. Please kindly clarify which of the above sludge amount shall be taken in consideration for purpose of design. | The incineration plant will be designed as 500 ton/day dewatered sludge capacity at minimum 8.000 hours/year. Table 2 indicated the sludge production in Antalya city as a general information to the Applicants during the seasons. | NO |
| 11 | Page 9-14 | Section I-Instructions to Applicants Item 17.2 Section II-Initial Selection Data Sheet (ISDS) ITA 17.1 ITA 19.1 | We have seen that the deadline for PQ submission has been updated as 13 February 2024. We believe this time extension will not be sufficient for the preparation of the submission documents. Therefore, we would appreciate if you could grant and additional time extension till 29 February 2024. | Please see Amendment No.1. Item 1 and 3 | YES |