

বাংলাদেশ চিনি ও খাদ্য শিল্প কর্পোরেশন

চিনিশিল্প ভবন, ৩নং দিলকুশা বাণিজ্যিক এলাকা, সদর দপ্তর, ঢাকা-১০০০

“১৪টি চিনিকলে বর্জ্য পরিশোধনাগার স্থাপন ” প্রকল্প

Memo No: 36.04.0000.030.14.124.19-135

Date: 17, September 2019

Pre-bid Meeting Minutes on Tender Document for Supply, Installation, Commissioning, Integration and Trial Run with 2 years maintenance of 14 Nos Effluent Treatment Plant (ETP) in Sugar Mills under BSFIC (Turnkey Basis) (Contract Package no: PG-1)

Date: 11, September 2019, 11:30 AM

Place: Board Room, BSFIC

A Pre-bid Meeting was held on September 11, 2019 - 11:30 AM at BSFIC Board Room to discuss various issues on the Tender Document for Supply, Installation, Commissioning, Integration and Trial Run with 2 years maintenance of 14 nos Effluent Treatment Plant (ETP) in Sugar Mills under BSFIC (Turnkey Basis).

The meeting was chaired by Mr. Md. Anwar Hossain, Director (Planning & Dev.) and ETP Project Co-Coordinator. The following officials attended the meeting:

From Bangladesh Sugar & Food Industries Corporation (BSFIC) and ETP Project:

- 1.Md. Shahidul Karim, G.M (civil Engg.) & PD, Establishment of 14 Nos ETP in Sugar Mills under BSFIC;
- 2.Md. Kamrul Islam, Manager(Civil Engg.),BSFIC
- 3.Md Ali Ahasan, Deputy Manager(ME),BSFIC
- 4.Md. Shahinul Islam, Deputy Manager(Civil Engg.),BSFIC
- 5.Abul Hossain, DGM (Purchase), BSFIC

The Chairperson of the pre-bid meeting welcomed everybody presented at the meeting including the representatives of the firms. He then gave a brief introduction and explained the objectives of the pre-bid meeting. He mentioned that if any clarification is required by the participants or, if there are any suggestions from them regarding the tender document, it may be discussed in the meeting. An open floor discussion has been taken place during the meeting. The following issues were discussed in the meeting:

From prospective bidders:

1. Parents Enterprise(Md. Delwar Hossain)

Eligibility of Tenderer:

Discussion:

Tenderer requested for clarification on IFT (19) & ITT 14.1(b) must be a Reputed ETP/STP/WTP Manufacturing firm experience in relevant fields of the tender document and further requested to reduce/modify the tenderer's experience for successful supplying of similar work and related services of ETP.

Recommendation:

The procuring entity clarified the IFT (19) & ITT 14.1(b) of the tender document mentioning that the tenderer must qualify the clause and advise them to follow the ITT 24.2(p) & ITT 29.2 of the tender document will prevail same as advertised.

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2. ABM Water Company Ltd.

Technical Queries:

Discussion:

Tenderer requested for some technical clarification from the procuring entity and further requested for modification on the Chemical (Fe So₄ and Lime powder etc.) Consumption is given in BOQ for 2/3 Days for Plant operation/trial run only (Schedule No. 5- ETP Plant Installation and Other Services; SL. No-26) of the tender document. The queries and change requests are given below.

- a. Tenderer requested for As per ITT 14.1(b) the capacity of Plant need to express in unit flow rate.

Recommendation:

1. Schedule No. 5- ETP Plant Installation and Other Services; SL.No-26)

The Chemical (FeSo₄ and Lime Powder etc.)Consumption for (item no 26) will be modifying/corrections as follows:-

26	CHEMICAL FOR 60 DAYS TRIAL RUN		
	Ferrous Sulphate – (FeSO ₄)	Kg	25000
	Lime Powder – Ca(OH) ₂	Kg	14000
	Polymer (Anionic Poly Acrylamide)	Kg	1000

2. In unit flow rate.

The tenderer should have an experience in Establishment of a complete ETP/ WTP/STP of **50 M³ per Hour capacity** (min.) including of its Civil, Electro-Mechanical works upto Trial Run including the supply of its relevant chemicals/ goods and related services; here ETP works would be preferable. Work order / contract agreement and completion certificate must be submitted.

3. Titas Banijjik Protisthan &Trade Vision Ltd. JV

Technical Queries:

Discussion:

1. Lamella Clarifier Size: The design velocity are 3.4 m³/hr are too high for 50 m³/hr flow,
2. Aeration System at (SBR): It diffuser or cross bubble pipe. You're drawing give cross bubble pipe.
3. Power Input: Need to make a range for voltage:±10%
4. Blower: Need to separate for SBR and equalization tank. As the different hydraulic position.
5. Equipment Brand: Only one brand (Taiwan) are given need to add more.
6. The process are design by BUET. But this process guarantee from contractor's request to remove from contractor's scope.
7. Need total raw effluent test report.
8. Need a key layout for each plant.
9. Both the sludge transfer pump as given as submergible pump which are not suitable for said application.
10. Design sludge drying bed are not sufficient. It is possible to de-water the sludge by

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mechanically.

11. Soil test report for each site.
12. ETP capacity is 50 M³/hr .But average effluent production is 100 m³/hr (As stated in background)
13. Efficiency of the effluent transfer pump- **Combined Efficiency: > 70%**
14. IP protection mentioned IP 68 (Min.), but actually it is the maximum state IP rating for Effluent Transfer Pumps:
15. Blower Efficiency: Efficiency > 90% (Min.) for Air Blower For SBR Tank & Equalization Tank

Recommendation

1. For ETP's capacity of 50 M³/hr; its flow rate might be corrected on Lamella Clarifier Size as required.
2. Aeration System -cross bubble pipe is used; so follow given drawing as per design.
3. Power Input: Need to make a range for voltage:±10% is allowed
4. Schedule No. 5- ETP Plant Installation and Other Services; SL.No-15; Taiwan/Equivalent is allowed.
5. As per tender documents of Appendix 8. Functional Guarantees need to provide by Tenderer.
6. As per drawing Blowers are separated for both tanks (SBR and equalization tank).
7. Newly all raw effluent characteristics of 14 sugar mills is attached in Tender documents.
8. Both the sludge transfer pumps can be re-located on utility/Service room.
9. As per ECR'97 if the total/ average effluent production is 100 M³/hr then 50% of it is allowed for implementation of a ETP (so, capacity is 50 M³/Hr is provided)
10. Consider Efficiency of the effluent transfer pump- Combined Efficiency: > 60 to 65%
11. Consider Blower Efficiency: Efficiency > 70-90% (Min.) for Air Blower For SBR Tank & Equalization Tank

Adroit Environment Consultants Ltd.

Technical Queries:

Discussion:

1. The Capacity of ETP that are mentioned in tender document are different in different pages. (e.g. 50 CMH on page-105, 100 CMH on page-170, 1500 CMD or 62.5 CMH on page-171).
2. In many areas of the tender document, sewage water is written which is confusing. So, it is important to know whether there is any sewage mixing with the sugar mill wastewater.
3. In IFT the Eligibility of Tenderer In tender Notice:-The Tenderer should have an experience in Establishment of a complete ETP/ WTP/STP of 50 Cumec capacity (min.).is it ok.
4. Appendix 1. Terms and Procedures of Payment found some mistake in (2) Plant and Equipment Supplied from Abroad 2.1 Ten percent (10%), 2.2 Eighty percent (60%),2.3 Five percent (15%), & 2.4 Five percent (15%)
5. GCC 24.1 The time for completion of the whole of the facilities need more time 240 days for Lot-1, 2, 3 & 4 and 180 days for Lot-5 from the effective date as described in the contract agreement.

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6. Who will sign this manufacturer's authorization letter (page 157)? AECL or there is no particular manufacturer for ETP. Different Equipment has different manufacturers.

Recommendation:

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1. ETP's capacity of 50 M³/hr.- for each of all 14 Sugar Mills
2. In tender documents if anywhere written sewage water is corrected with waste/effluent water.
3. In IFT the Eligibility of Tenderer In tender Notice will be corrected as Establishment of a complete ETP/ WTP/STP 50 M³/hr capacity (minimum.).
4. As per Clouse GCC 24.1 the time for completion of the whole project will be same as prescribed in tender document.
5. The manufacturer's authorization letter must be sign by different manufacturers for different equipment; but must be as per prescribed form of tender document.

The Chairperson with the help of his team clarified all the issues. However, the participants thanked the Chairperson and his team for brief discussion on the issues and give a clear conclusion.

After threadbare discussion the following recommendations are considered:

1. Amendment of IFT Clouse 19. (a) As the Eligibility of Tenderer In tender Notice will be corrected as Establishment of a complete ETP/WTP/STP be **50 M³/hr** capacity (minimum.).
2. Amendment of Schedule No. 5- ETP Plant Installation and Other Services; SL.No-26) The Chemical (FeSO₄ and Lime Powder etc.)Consumption for (item no 26) will be Modifying/corrections as follows:-

26	CHEMICAL FOR 60 DAYS TRIAL RUN		
	Ferrous Sulphate – (FeSO ₄)	Kg	25000
	Lime Powder – Ca(OH) ₂	Kg	14000
	Polymer (Anionic Poly Acrylamide)	Kg	1000

3. Amendment of Schedule No. 5- ETP Plant Installation and Other Services; SL.No-15; Taiwan/Equivalent is allowed.
4. The Specification for (item no 3,14 & 15; Schedule No. 5) will be modifying as follows:
 - a. Power Input: Need to make a range for voltage: ±10% is allowed.
 - b. Consider Efficiency of the effluent transfer pump- **Combined Efficiency: > 50%**
7. Consider Blower Efficiency: Efficiency > 70-90% (Min.) for Air Blower For SBR Tank & Equalization Tank.
8. Amendment of Appendix 1. Terms and Procedures of Payment Should be Corrected as in (2) Plant and Equipment Supplied from Abroad 2.1 Ten percent (10%), 2.2 Sixty percent (60%), 2.3 Fifteen percent (15%), & 2.4 Fifteen percent (15%).

In conclusion, the chair thanked all participants for their participation, discussion and suggestion.

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Md. Shahidul Karim

General Manager (Civil Engg.) &

Project Director, Establishment of 14 nos Sugar Mill under BSFIC

Name of Prospective bidders attend/present:

1. Md. Delwar Hossain, **Parents Enterprise**
2. Md. A Sattar, **Energy Solution**
3. Humiun kabir, **SPBS Syndicate**
4. Md. Sultan Hossain, **Usha Construction**
5. Ohiduzzaman, **Weashchem International**
6. M.M. Ziaul Hasan, **S. S. Scientific Corporation**
7. Md. Rubiul Islam Robin, **Adroit Environment Consultants Ltd.**
8. **IEEM**
9. **Titas Banijjik Protisthan & Trade Vision Ltd. JV**
10. **Business DEAL**
11. **ABM Company Ltd.**
12. **Engineering Survives Ltd.**
13. M/S. Syed Munzurul kabir, **SMK**