File Ref. No. PUR/IICT/DMS/742/23-24 **Dt: 04-10-2023**

CPPID: 2023_CSIR _167026_1

Minutes of Pre-Bid Conference (PBC) held on 20-09-2023 for proposed procurement of **"0.5MLD ETP at Siripuram village, Ramannapet Mandal, Yadadri bhongir district:"** – As scheduled (PBC) has been conducted on 20-09-2023 for proposed Pre-Bid Queries - Tender Enquiry No: PUR/IICT/DMS/742/23-24 - Design construction, commissioning and operation and maintenance of 0.5 MLD Effluent Treatment Plant.

Chairpersons / Members of the Technical Sub Committee (TSC) present during PBC including domain expertspresent during PBC:-

1. Dr. N Lingaiah, Chairperson
2. Dr. Sreepriya V, Member
3. Dr.PratyayBasak, Member
4. Dr. Jithender Reddy, Member
5. Shri D Venkateshwar Rao, Member
6. IO/PL – Dr S Venkatamohan

Representatives of the following firm attended the PBC

1. M/s.Hubert Enviro Care Systems Pvt Ltd., Chennai.
2. M/s.Southern Ecologics and Services Pvt. Ltd, Pashamylaram (IDA), Telangana.
3. M/s.Eesavyasa Technologies Pvt Ltd, IDA, Balanagar, Hyderabad, Telangana
4. M/s.H_2O Engineering and Technologies, Kolathur, Chennai
5. M/s.Blue drop Enviro Pvt Ltd, Hyderabad, Telangana
6. M/s.H_2O Technologies (Total solutions), Moula Ali, Hyderabad, Telangana

The following points were discussed during the PBC:

The major specifications encompassing "A" and "B" as listed in the tender document were fine with the firm.

Common Queries raised by all the firms

Query: Whether boundary required for the plant, if so what kind of boundary (Civil/fencing), also share the extent of boundary wall required.Compound wall/fence is not mentioned in document, is it in panchayat or IICT scope?

Response: Fencing is not into the scope of the tender.

Query: Is the electricity connection to the panel and any associated charges from the electricity department within our scope? Whether electrical sources will be provided until the Plant Distribution panel?

Response: Water & Power during the construction phase will be provided by the Gram Panchayat. However, electrical lines should be drawn from the adjacent HT line to plant by the bidder.

Query: What is the Sludge disposal methodology during O&M?

Response: Dried sludge from Sludge drying beds will be handled by Gram Panchayat

Query: What should be the finish of pipeline backfilling?

Response: As per the norms specified by Telangana Government.

Query: Whether the screens are manual /mechanical?

Response: Manual.

Query: Except treated water tanks and sludge drying beds all tanks are underground only.

Response: Equalization tank will be above ground as overhead tank, while other unit operations based on the gravity of flow will be above ground or semi-ground or underground.

Query: The space below the equalization tank will be utilized for the lab & control panel room.

Response: Yes. It needs to be used for lab, control panel room and washroom.

Query: Soil test to be carried out by the bidder

Response: Yes

Query: Walkways to be provided in the plant using paver blocks.

Response: Yes

Query: Material storage shed during construction will be provided by Panchayat. However, if more are required, it should be constructed by the bidder.

Response: Gram Panchayath will arrange the storage space within the village.However, if more is required, it should be constructed by the bidder.

Query: All statutory approvals required for the above ETP will be obtained by IICT.

Response: Gram Panchayat will provide necessary approvals.

Query: Only technology as per tender document to be implemented by bidder.

Response: Yes. But modification is applicable with same functional requirement and without compromising on the performance.

Query: Except the aerobic and anoxic tank, all the tanks to be covered with RCC slab and manholes to be provided.

Response: Safety cover with standard quality should be provided.

Query: Pump should be used only for equalization tank inlet from collection sump. All the downstream should flow only by gravity.

Response: Yes

Query: In the previous tender, when the drain length was specified as 0.70 kilometres, the quantity of manholes was indicated as 30 units. Now, with the reduced drain length of 0.40 kilometres, the quantity of manholes remains the same at 30 units. Is this consistent or could it be a typographical error?

Response: Manholes number can be modified accordingly to the drainage lengthfor 0.40 kilometre length of drain.

Query: Is there a need for a pump to transport the treated water? If so, what should be the capacity of the pump?

Response: No

Query: The document does not specify the location for the reuse of the final treated water. However, during the site visit, it was communicated that the treated water will be discharged into the lake adjacent to the ETP and may occasionally be made available for reuse upon the request of the panchayat. Please confirm the same.

Response: Treated water will be stored in storage tank and excess water will be channeled to the adjacent pond.

Query: During the site visit, it was communicated that the route for the underground drainage, which covers a length of 0.40 kilometres, will be established along the existing drain up to 0.40 kilometres from the ETP. It was also mentioned that the panchayat will be responsible for the remaining drainage and its connections. Can you please confirm this arrangement?

Response: Yes, Gram Panchayat will be responsible for any additional drainage work.

Query: Would it be possible for you to kindly share the soil investigation report with us if it has been conducted? Your cooperation would be immensely valuable in facilitating an optimized estimation of the civil cost.

Response: It will be under the scope of bidder

Query: What are the parameters have to monitor in online and offline for ETP inlet & Outlet.

Response:pH and Dissolved oxygen (DO) for online. Off line parameters as per discharge norms.

Query: Collection Tanks 1 or 2.

Response: Collection Sump is one in number.
Query: The Treated effluent parameter is not mentioned.

Response: As per the Green tribunal standards.

Query: Kindly share us the Feed TSS/SS value.

Response: TSS/SS, 2000±250 mg/l.

Query: Kindly confirm which dewatering system either Filter press or Screw Press

Response: Sludge drying beds

Query: Kindly give us the specification for the non-sacrificial electrodes and electrodes cleaning procedure and also provide working Procedure of Anoxic Embedded with electro oxidation.

Response: Electrodes of SS316Lwill be used for both anode and cathode and it should be 15% of tank volume.

Query: Kindly provide the Hybrid Wetland description considered in tender

Response: Horizontal wetland (with baffles)/ Vertical/ Flow through system or combination with/without air supply is recommended.

Query: Kindly ensure the rainwater should not mix with raw effluent through sewer manual through individual houses.

Response: Excess rainwater will overflow from sump to the pond by a bypass provided to sump well.

Query: Request to provide the Invert level of the last Manhole.

Response: It should be made at level sufficient to discharge water into the collection sump.

Query: Flow Chart is not clear (Primary and secondary treatment system-Aeration or SBT?

Response: Screen (2 no)–Sump Well – Equalization tank (overhead) - Biological treatment unit (2 stages; Aerobic andAnoxic) – Constructed wetland – Disinfection- underground storage tank (non-RCC).

Query: Required clarity on payment terms and releases stage wise-as per milestones to be specified.

Response: As per amended Specifications

Query: Can advance payment be provided upon submission of PBG of equivalent value?

Response: As per amended Specifications

Query: Eligibility Criteria: We have similar work experience in Private sector only and please find herewith attachment of my company profile also for your reference and we don't have the similar work experience in Government sector.

Response: Similar experience will be considered up on submission of requisite documents

Query: My Company yearly financial turnover is 10 to 12 Cr.

Response: NA

Query: Any exemption provided if we submit MSME certificate (Udyog Aadhar certificate) regarding Bid Security.

Response: As per Tender document

1. **Query raised by M/s. H_2O Engineering and Technologies, Kolathur, Chennai, and response of CSIR-IICT:**

Query: Is it possible for IICT to provide the pipeline layout drawing for drainage?

Response: Pipeline layout and drainage maps will be provided.

Query: Can we change the size of the equalization tank to match the size of the lab & control panel room?

Response: Yes, but the anticipated performance should be maintained.

Query: Whether IICT will provide the complete design details of aeration, Electro Oxidation and wetland for work execution?

Response:CSIR-IICT will provide the details of bioelectro-oxidation.

Query: Source of effluent is from cottage industry dyeing effluent along with domestic sewage as dyeing is majorly done in households.

Response: Yes.

2. **Query raised by M/s.Eesavyasa Technologies Pvt Ltd, IDA, Balanagar, Hyderabad, Telangana, and response of CSIR-IICT:**

Query:F.O.R Destination is asked to be given as CSIR-IICT, Hyderabad for supply, will IICT transport the material to site from there?

Response: All materials should be transported directly to the site (Siripuram Village)

Query: What is design approval time frame and supply completion period of 20 weeks starts after design approval or PO?

Response:23 Weeks from the date of design approval by CSIR-IICT

Query: The duration specified for operation and maintenance in the scope is 12 months, but there appears to be a contradiction in the Tender Quoting Excel, which indicates a duration of 18 months. Could you please provide clarification on this matter?

Response:O & M is for 12 months

Query: Description about incidental works was not provided in the document.

Response: It is under the scope of the bidder

Query: The specification for DC power supply for the Anoxic stage embedded with an electro-oxidation system (utilizing non-sacrificial electrodes; Stage 2) has not been provided. Kindly include this information.

Response: No external power supply is required for the electro-oxidation system.

Query: The tender document does not specify the requirement of flow meters as inlet and outlet, is it in scope?

Response: Flow meter at inlet and outlet is part of the bid.

Query: From the scheme, it is apparent that aeration will be needed for three units: the Equalization tank, the Aerobic Chamber, and the Constructed Hybrid Wetlands. Since tank capacities are determined by your design, we kindly request you to specify the blower capacities required for each unit, or alternatively, indicate the percentage of BOD reduction in each unit. This information will assist us in calculating the optimized blower capacities.

Response: Aeration is compulsory for aerobic chamber and partial aeration for the anoxic tank. However, the aeration for the equalization tank and wetland system is not mandatory.

Query: The tender document does not specify anything regarding standby. Shall we quote without considering standby equipment.

Response: One set of additional pumps and blowers are required as standby with standard warranty.

3. **Query raised by M/s.Southern Ecologics and Services Pvt. Ltd., Pashamylaram (IDA), Telangana, and response of CSIR-IICT,**

Query: Dyes water collection pipe is separate from Sewage?

Response: Both dye wash water and domestic sewage is combined in single discharge lines.

Query: Pre-treatment (Colour removal) not mention in PFD.

Response: No pre-treatment is required for colour removal.

Query:F/M is very high.

Response: Designed to enable bacteria to breakdown complex dyes.

Query: Shall we go with pre-fabricated tank or Civil tanks and below ground or Semi or Above ground?

Response: Civil tanks based on the flow pattern will be below ground level or semi or above ground level.

4. **Query raised by M/s. Hubert Enviro Care Systems Pvt Ltd., Chennai, and response of CSIR-IICT:**

Query: It is observed that it is farm land and water is logging and more than 1meter depth earth to be filled to match ground level.

Response: Not necessary.

Query: Kindly clarify Since the invert level is 6 meter the excavation for pipe laying and backfilling cost needs to be considered in Bid cost or not, please clarify

Response: It is under the scope of bidder.

Query: With reference to our discussion during site visit, we understand that equalization tank considered as overhead tank 9.0 meter; there is no need of overhead tank since effluent flow by gravity to Aerobic tank.

Response: Overhead tank is considered as equalization tank and there is no additional over head tank required.

Query: As per standard practice, no need of top covering of Aerobic Tank for aerobic process needs adequate air for MLSS growth. Please clarify
Response: Safety cover with standard structure is necessary.

Query: Shall we consider Electro coagulation an alternative method, Electro coagulation with ferric dosing will reduce dyes and dye intermediate. Kindly confirm

Response: No.

5. **Query raised by M/s. Blue drop Enviro Pvt Ltd, Hyderabad, Telangana, and response of CSIR-IICT:**

Query: Accommodation and amenities should be provided in the village by the Client/purchaser (IICT)

Response: Under the scope of the bidder

Query: If any statutory requirements such as ESI, PF are there, please specify, usually we cover all the workmen through WCP, is it sufficient or not.

Response: Under the scope of the bidder

Query: Statutory clearances with respect to land, Pollution Control Board clearances such as CFE & CFO Shall be in the scope of Client/Purchase (IICT).

Response: Gram Panchayat will provide.

6. **Query raised by M/s. Reepanshi infrastructure private limited, Gujarat, Telangana, and response of CSIR-IICT:**

Query: The said technology and design of treatment is pre-defined by you. Wanted to understand have you done any pilot study with respect to said process? If the said process is successfully running. Are we allowed to visit and inspect?

Response: The design is based on Lab/Pilot scale studies with the real field effluents for more than one year.

Query: During our meet you have expressed that this is for the first time you are implementing, can you assures that even after following all you said dimensions and instruction, if the plant doesn't work as per your standard who will take the responsibility?

Response: This is first time implementing for the present scenario only.

Query: Pipe lines as per your instruction is 400 meters. During the course of installations if the distance increase. Kindly highlight on this point.

Response: Only for 400 meters.

Points clarified by CSIR-IICT Team during PBC:

The firm informed that they do not have problem with other points of tendered specifications and requirements. Participating bidders have been informed that points raised by them during PBC will be examined by CSIR-IICT's **Technical Sub Committee (TSC)** constituted for the purpose of procurement of said equipment and **post PBC changes** in tendered specifications and requirements to be agreed after due consideration of the same by TSC, if any, will be uploaded in **CPPP** as part of **revised/amended tendered specifications.**

Minutes of the PBC with changes agreed (if any) will be uploaded in due course at **CPPP** for information and reference of prospective bidders on or before . All bidders are requested kindly to take a note of changes in tendered specifications subsequent to PBC held today, i.e. 12-9-2023 before they start submitting their online bids through CPPP

Dr. Sree Priya Vedantam)	(Dr.PratyayBasak)	(Dr.Jithender Reddy)
Member	Member	Member
(Dr. D V Rao)	(Dr S Venkata Mohan)	(Dr.N Lingaiah) 5/10/2023
Member	I/O	Chairperson

Revised Specifications/Corrigendum:

File Ref. No. PUR/IICT/DMS/742/23-24 **Dt: 04-10-2023**

Revised specifications in tender:

Sl No	Existing Specification	Revised/ Amended Specification
GCC 2.16.3	Time period for construction is 23 weeks (20+3)	Time period for construction is 23 weeks (20+3) from the date of approval of design
SL No. 3	Laboratory equipment	Laboratory equipment's includes as per the discharge norms.
SL No. 3	-	Construction of toilets with water connection also the part of bid. (New Addition)
Eligibility Criteria	The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of application for tenders.	**Deleted**

Payment terms shall also stand revised/ amended as per the following

S. No	Item	Stage of Payment	Payment Percentage (%)
1	**Earthwork and ETP structural drawings**	• Soil Testing Report • Vetting of design and structural drawing of ETP • Completion of leveling and earthwork of ETP	**30%** of the PO value against the BG for the equivalent amount
2	**ETP Construction, ETP Operation and Underground Drainage Work**	• Completion of civil work of ETP • Internal Piping • Completion of Underground drainage work • Connection of underground drainage to ETP • Installation of machinery to ETP • Testing and operation of ETP • Setting up of Lab as per Tendered Specifications	**50%** of the total PO value on completion of the activities indicated, as accepted by the CSIR-IICT user Scientist
3	**Operation and Maintenance (O & M)**	• After successful completion of Operation and Maintenance (12 Months) as certified by CSIR-IICT user Scientist.	20%

All the other tender specifications, Terms and Conditions remain unchanged. Bidders may please submit their bids accordingly

The date for submission of bids is extended up to 26-10-2023 13:00 hrs and the date of bid opening is on 27-10-2023 14:30 hrs

All the bidders may please take note the above revised/amended specifications and submit the quote accordingly

(Dr. Sree Priya Vedantam)
Member

(Dr.PratyayBasak)
Member

(Dr.Jithender Reddy)
Member

(Dr. D V Rao)
Member

(Dr S Venkata Mohan)
I/O

5/10/2023

(Dr.N Lingaiah)
Chairperson