



Telangana State Industrial Infrastructure Corporation (TSIIC)

Request for Proposal (RFP) for Selection of Engineering Procurement Construction (EPC) Contractor for Detailed Design, Engineering, Construction, Supply, Installation, Testing, Erection & Commission Zero Liquid Discharge (ZLD) based Common Effluent Treatment Plant (CETP) for Textile Effluent of 5.0 MLD capacity in Phase 1 for Kakatiya Mega Textile Park, Shyampet along with all related Civil, Mechanical and Electrical equipment and accessories, Instrumentation including miscellaneous works etc along with Operation and maintenance of the entire proposed tertiary treatment facilities at site for Seven (7) years

Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
1	General	-	Request you please allow us to participate in this tender – by adding our name in the approved SBR Decanter vendor list.	Bidder is free to adopt any proven technology and same will be examine at the time of evaluation.
2	General	-	Request pl add Moving arm swing type SBR decanter SS316 with scum protection system for better scum prevention during O&M .	Please refer our response to point no 1
3	Volume I :- Invitation for Bids, Instructions to Bidders & Conditions of Contract– Page No. 15 Experience Criteria – Clause 1	Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One ETP with ZLD System having minimum 5 MLD capacity Each Bidder shall submit only one Bid, either individually, or a partner in a Joint Venture (JV) to gain new capacity and expertise required for the project. The JV partner shall have experience of developed and/or designed, constructed and commissioned CETP with ZLD system and having UF (Ultrafiltration) & Reverse Osmosis (RO) and Multiple Effect Evaporator treatment for waste water in one year during the above period as stated above. The lead partner should have qualified the minimal technical or financial criteria.	Bidder shall have experience of having completed similar works means experience on EPC/BOOT/BOO/PPP/Project developed in SPV name having 100% investment at time of execution of project during last 10 years ending last day of month previous to the one in which bids are invited means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) / Membrane Bio-Reactor (MBR) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: "One CETP with ZLD System having minimum 1 MLD capacity with Up-front MEE. AND One CETP with ZLD having a treatment capacity of more than 5 MLD and if 90% of work is completed and partially commissioned." OR "One ETP/CETP with ZLD System having minimum 5 MLD capacity."	The clause may be read as: Bidder or JV Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited for development, design, construction and commissioning of CETP/ETP with ZLD system comprising UF (Ultrafiltration) / (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity AND One ETP/CETP with or Without ZLD System having minimum 5 MLD capacity or group of ETP/CETP with or Without ZLD of 5MLD Capacity not exceeding 3 projects during last 10 years. Each Bidder shall submit only one Bid, either individually, or as a partner in a Joint Venture (JV).
4	Volume I :- Invitation for Bids, Instructions to Bidders & Conditions of Contract– Page No. 16 Experience Criteria – Clause 2	The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP plant of 1 MLD Capacity and minimum one ETP ZLD plant of 5 MLD Capacity during last 10 years. In case of JV, any partner member shall have experience of operating and maintaining wastewater Treatment Plant of minimum one CETP plant of 1 MLD Capacity and minimum one ETP ZLD plant of 5 MLD Capacity for at least one year during above period, having membrane filtration (UF), (RO) and Multiple Effect Evaporator.	The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP plant of 1 MLD Capacity OR minimum one ETP/CETP ZLD plant of 5 MLD Capacity during last 10 years. In case of JV, any partner member shall have experience of operating and maintaining wastewater Treatment Plant of minimum one CETP plant of 1 MLD Capacity and minimum one ETP ZLD plant of 5 MLD Capacity for at least one year during above period, having membrane filtration (UF) / MBR, (RO) and Multiple Effect Evaporator.	The clause may be read as: The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP plant with ZLD of 1 MLD Capacity and minimum one ETP/CETP with or without ZLD plant of 5 MLD or group of ETP/CETP with or Without ZLD of 5MLD Capacity not exceeding 3 projects during last 10 years. In case of JV, any partner member shall have experience of operating and maintaining wastewater Treatment Plant of minimum one CETP plant with ZLD of 1 MLD Capacity and minimum one ETP/CETP with or without ZLD plant of 5 MLD Capacity for at least one year during above period, having membrane filtration (UF)/(RO) and Multiple Effect Evaporator.
5	Volume I :- Invitation for Bids, Instructions to Bidders & Conditions of Contract– Page No. 21. Clause : 15.2	The quoted item rate shall include for all duties, taxes, and other levies payable by the Contractor under the contract, and no claim whatsoever, in this respect shall be Entertained by the Authority.	Price Bid shall be excluding of GST tax due to uncertainty of tax rates.	RFP condition prevails.
6	Volume – 1, 21. FORMAT AND SIGNING OF BID: Page 24.	One Original and one duplicate hard copy of Pre-qualification Proposal duly signed by the Bidder (without filling price);	Kindly accept Pen drive instead of CD	Removable storage drives are acceptable
7	Volume – 1 - Page 38	Appendix D BIDDING CAPACITY	Please provide estimated value of tender for calculating Bid Capacity	Bidder to assess on their own
8	Volume IV - Price Bid– Page No. 18	Schedule of Payment Milestone	We request to consider the atleast 10% advance payment against Advance Bank Guarantee (ABG) of CAPEX value and revise the Payment Milestone for Project accordingly.	RFP condition prevails.



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9	Volume-II – Point 1.8 – Page No. 11 Volume-IV - Forms of Proposals, & Schedules - GUARANTEE STATEMENTS - Point G)	Recovery required: •UF recovery and RO recovery - Min >90% •The overall recovery from the ZLD plant i.e the total of treated water recovered as RO permeate and MEE condensate shall be >95% of inlet volume of effluent •Moisturecontentinthesaltfrom Mechanical evaporation - <15% Volume IV - Price Bid - Performance Guarantee - Stage Wise:	Recovery required: •UF recovery and RO recovery - Min >90% • The overall recovery from the ZLD plant i.e the total of treated water recovered RO permeate and MEE condensate shall be >95% of inlet volume of effluent •Moisturecontentinthesaltfrom Mechanical evaporation - <15% Volume IV - Price Bid - Performance Guarantee - Stage Wise: •Permeate - RO -1 – Min. 80% & •Permeate - RO -2 – Min. 60% That means, Overall UF-RO recovery could be min. 92.4% •The maximum volume of RO reject shall be within 380m3/day •Min. 90% of the feed shall be recovered in the form of condensate water. That means, Overall ZLD Plant recovery could be min. 99.2% •Salt generated shall have dryness not less than 90%. These statements of Vol-3 & 4, are contradictory in terms of Process as well as evaluation purpose. Kindly clarify the minimum Performance Guarantee that to be considered.	RFP holds good. Percentage(%) indicated are minimum values.
10	Volume IV - Price Bid PRICE BID O&M FIXED COST - Page No. 9 PRICE BID O&M VARIABLE COST - Page No. 13	Note Clause 2. Bidder shall not consider the cost towards sludge disposal to TSDF - Hyderabad during stabilization period of 6 months. Note Clause 3:Cost towards disposal of sludge shall be finalized by Tariff committee on award of contract which will be applicable for stabilization period also.	These statements in Price Bid, are contradictory for sludge disposal cost consideration. Kindly clarify whether it is to be consider during stabilization period of 6 months in O&M cost or not.	Bidder shall not include the cost of disposal of sludge/salt in the bid to be submitted. It is the responsibility of the bidder to dispose the sludge at TSDF Hyderabad based on rates finalized by the Tariff Committee on mutual consent and terms and conditions basis.
11	Volume II :- Technical Specification – Page No. 4	"It is proposed to set up Common Effluent Treatment Plants (CETP); 5 MLD capacity CETP - Combined effluent from member industries in Phase I." In addition, as per ANNEXURE-I of Drawings, available area for CETP-ZLD is 7.14 acre (i.e. 28900 sq.m. of land).	We understand that for this 5 MLD ZLD CETP project, we can utilize complete available land of 7.14 acre for this Phase-I project. Please confirm.	Please refer to the drawing annexure indicating the proposed location of CETP . TSIIC shall provide the required land (6.5 Acre Approx) to the bidder for development.
12	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 7	Time of Completion/Commissioning: 9 (Nine) months including monsoon period excluding 6 (Six) months trial run and Stabilization period.	Based on the present market scenario for Electrical and Instrumentation items due to worldwide shortage of material, we request you to consider the following timeline for project. Time of Completion/Commissioning: 12 (Twelve) months including monsoon period excluding 6 (Six) months trial run and Stabilization period	RFP condition prevails.
13	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Clause 23 – Page No. 24	23.DEADLINE FOR SUBMISSION OF BIDS: 23.1Bids must be submitted not later than 06.08.22 up to 16:00 hours to be received by the Authority at the TSIIC address specified.	We request to extend the Last date of Bid submission by 15 days after 25/08/22 i.e. 09/09/22.	The bid submission due date is extended by 14 days i.e., till 09/09/22 up to 16:00 hours
14	General	-	As the proposed CETP-ZLD at Kakatiya Mega Textile Park and this Textile Park is under Developing stage, therefore how much is anticipated to supply the full 5 MLD effluent to CETP after installation and erection of Plant?	70% volume is anticipated by the time trial run is completed. Also, Please refer to RFP clause 27.16 of specific condition of contract under section 2 & point No 1
15	Volume II:- Technical Specification – Page No. 11	Table 1 : Characteristics of Plant influent and effluent	As the proposed TDS at the inlet of Plant for design is around 4000 ppm, what could be maximum limit of the major following ions to define the UF-RO process. - Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Chloride, Sulphate, Nitrate, Fluoride, Phosphate, Iron -Reactive Silica -Any Other Heavy Metals	Bidder to consider based on the similar project experience



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16	Volume II :- Technical Specification CHAPTER 2 - PROCESS DESCRIPTION FOR PROPOSED PLANT – Page No. 12	PRIMARY TREATMENT & PHYSICO CHEMICAL TREATMENT There shall be RCC flash mixers, for quick mixing of Lime. The mixer shall be equipped with an impeller type, high speed mixer. The outlets of the mixers shall lead directly to Clariflocculator. Dosing tanks with agitators and dosing pumps for Lime dosing shall be provided to feed the solution in the flash mixer chamber. The design flow shall be received by Clariflocculator from the flash mixer by central inlet pipe. The clarified effluent flow shall be collected by peripheral weir with vertically adjustable V notches.	We suggest to allow to consider the Dissolved Air Flotation (DAF) system for Physico-chemical treatment instead of conventional Clariflocculator, as DAF is well proven technology for TSS as well as Oil & Grease removal of effluent. It also eliminates the requirement of Belt type oil skimmer at Equalization tank.	Please refer our response to point no 1
17	Volume II :- Technical Specification CHAPTER2-PROCESS DESCRIPTION FOR PROPOSED PLANT – Page No. 14	Treated effluent from SBR shall be collected in to the filter feed tank. Necessary filter feed pumps shall be provided to pump the treated effluent to Disc media filters. The secondary treated sewage enters the Screen filter for further treatment before reuse to remove suspended solids.	We understand that rather than considering Screen filter after SBR as a polishing treatment of CETP, we suggest to adopt the Rapid Gravity Sand Filtration /Pressure Sand filter followed by Activated Carbon Filter and the permeate flow from CETP will pass-through Self-Cleaning type Basket strainer as a pre-filtration to UF system.	Please refer our response to point no 1
18	Volume II :- Technical Specification CHAPTER 2 - PROCESS DESCRIPTION FOR PROPOSED PLANT – Page No. 16 Ultra-Filtration System	"The criteria for the design of Membrane Filtration system are given below: Daily average suspended solids (SS) in Membrane Filtration Effluent shall be below detectable limit or <1 mg/L, and turbidity shall be <2 NTU at all times"	We suggest that UF system should be designed with the daily average Feed of TSS 30 mg/l and Turbidity 20 NTU for smooth operation of UF system in any case of upset condition of CETP.	Please refer our response to point no 1
19	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 36	OZONATION SYSTEM 1.Quantity: 1 set 2.Capacity: 500 grams/hr	As per the specified Ozonation system capacity, the ozone dosing is around 2 ppm for 5 MLD effluent. While, as per Ozonation system manufacturer's suggestion and standard design, 2ppm ozone dosing is typically used for pure water disinfection only, and will not significantly impact on improvement in bio-degradability of effluent. For improvement of bio-degradability of industrial effluent, they suggest to consider minimum 100-125 ppm Ozone dosage, which will result in huge capacity of Ozonation plant. We request you to eliminate the Ozonation system from process requirement of	Please refer our response to point no 1
20	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 34	Equalization Tank 5. Aeration grid: To be provided in SS 316 with 6 mm holes	We request you to allow the Coarse Bubble diffused Aeration grid with UPVC lateral/SS downward pipes in Equalization tank.	Please refer our response to point no 1
21	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 36 SBR system Volume IV - Price Bid - Performance Guarantee - Stage Wise	Clariflocculator Outlet (which is SBR inlet) BOD< 450 mg/l COD< 2500 mg/l SBR Outlet BOD< 30 mg/l COD< 100 mg/l	As per considered process for CETP and stagewise effluent parameters, BOD reduction is around 94% and COD reduction is around 96%, which may not possible with single stage Biological system (SBR) only. To avoid any upset in CETP-ZLD plant as well as smooth operation, we request you to consider Two stage biological system for CETP. We have also the similar kind experience (Textile Effluent CETP) with capacity of 12 MLD at PWT, Rajamahendravaram.	Please refer our response to point no 1
22	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 38	Pressure Sand filter 1.Quantity: 2 Nos 2.Flow: 115 m3/hr	As per tender condition, both PSF are working only. For uninterrupted and smooth operation, we suggest to have 2 working and 1 standby operation, so that one-by-one backwash can be possible without any interruption in operation and subsequent process. Quantity: 2W + 1S Flow: 115 m3/hr	Please refer our response to point no 1
23	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 38	Pressure Sand filter	We suggest to consider Activated Carbon Filter (ACF) after Pressure Sand Filter (PSF) as a polishing treatment, so the residual color/smell/organic compound etc can be removed.	
24	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 49	RO - 1 SKID 6. No of membranes:144 Nos of 8040 per skid 7. No of pressure vessel: 22 Nos of 450 psi 6 El long vessel per skid	As per 144 nos. of membrane per skid and 6 nos. of element per pressure tube, No of pressure vessel: 24 Nos of 450 psi Kindly confirm.	Bidder shall provide as per membrane manufacturer design standards.
25	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 49	12. Skid MOC: MS Powder coated	We suggest to consider the RO skid MOC as MS with Epoxy Painting and the same is suitable for application.	It is to clarify that, the RO & UF skid shall be powder coated only.



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26	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 51 RO - 2 SKID	1. No of skid: 2 Nos	As the RO-1 reject quantity could be 1000 KL as per 80% recovery of stage 1, we request you to allow to consider One single skid and suitable equipments (Pumps etc.) of RO-2, instead of two separate skids and its supportive arrangement.	RFP condition prevails. Two skids shall be provided
27	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 53	Salt storage building: 45m X 40m X 4.5 m HT	We request to allow the shed for salt storage. Salt storage shed: 45m X 40m X 4.5 m HT	RFP condition prevails.
28	Volume II :- Technical Specification CHAPTER 3 - PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS – Page No. 53 ELECTRICAL & INSTRUMENTATION WORKS	It shall be the responsibility to obtain adequate incoming HT power at CETP Site from Electric Supply Company based on the maximum demand load to meet the entire demand of existing CETP/Plants. All necessary liasoning for the same shall be done by the Contractor in consultation with Engineer-in- Charge.	We suggest to consider the following matter for better clarity regarding scope: ELECTRICAL & INSTRUMENTATION WORKS "It shall be the responsibility to obtain adequate incoming HT power at CETP Site from Electric Supply Company based on the maximum demand load to meet the entire demand of existing CETP/Plants. The Employer (Client) will pay the charges for obtaining the above connection whereas necessary liasoning for the same shall be done by the Contractor in consultation with Engineer-in-Charge."	RFP condition prevails.
29	General	-	We request to consider the Centralize PLC-SCADA system with Panel for ZLD Plant for better monitoring during O&M.	RFP condition prevails. Please Refer Vol -II Technical Specifications on Instrumentation and Control and PLC/PC/SCADA BASED AUTOMATION SYSTEM FOR PLANT
30	Volume II :- Technical Specification – Page No. 5 CHAPTER 09 - SPECIFICATIONS – ELECTRICAL - Page No. 301	a) 33KV Switchyard, H.T. & L.T. Room for electric Sub-station to serve the proposed tertiary treatment plant as well as entire existing CETP site loads (to meet the power requirement of existing as well as proposed plants).	Is there any existing CETP facility available there? If so, please share the details of existing CETP facility. Moreover, As per tender clause Authority is asking for 33 kV Switchyard but 33 kV or 11 kV switchyard will be provided (whichever is applicable for meeting max. demand of the plant)	33kv/11kv switchyard shall be provided by the bidder as applicable to meet the maximum power demand of the entire CETP facility.
31	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 304 Point No. 3.2.1	"Obtaining approvals from statutory authorities for materials, plant design / drawings and complete installation shall be the responsibility of the contractor. The contractor shall get the drawings, layouts of HT sub-station etc. approved from local electric supply company and Chief Electrical Inspector, as applicable. The contractor also shall arrange to get the installation inspected by CEIG and carryout modifications / rectification as required by CEIG, prior to commissioning of sub station / electrical equipments."	We request and insist to consider that the all-statutory approvals shall be in Client scope. However, the contractor will assist to get the approvals from concerned authority.	RFP conditions shall prevail. It is in Bidder scope to obtain all statutory clearances from the competent authorities. However, TSIIC will assist to get the approvals from concerned authority.
32	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 306 Point No. 3.10	"In outdoor areas cables shall be mostly buried directly underground with mechanical protection wherever applicable. In indoor areas, cables shall be laid in trenches through medium duty GI cable trays."	As per this tender clause, Authority is asking for GI Cable tray but, considering 7 years of O&M and longer life of cable trays, MOC should be FRP. (FRP Cable Tray Vendors - Silverline/Sumip/EPP) We request you to change the MOC of cable tray from GI to FRP.	FRP trays are also acceptable
33	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 306 Point No. 3.10	"A derating factor of 0.65 shall be used as a minimum or as applicable as per site conditions."	We request you to consider the derating factor of 0.70 instead of 0.65.	RFP condition prevails.
34	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 306 Point No. 3.18 HT Supply	"The Contractor shall ascertain the details of availability of HT supply from local electric supply company as applicable for site location wherever HT supply is to be availed and procure equipment accordingly. It is the responsibility of the Bidder to liaison and complete the formalities of procuring power from supply company. The Contractor shall pay the charges for obtaining the above connection whereas necessary liaison for the same shall be done by the Contractor in consultation with Engineer-in- Charge."	The overall responsibility of HT power supply to CETP site is in the scope of Client only, including the liaison charges. However, the Contractor will assist to obtain the HT power to site.	RFP condition prevails.



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35	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 317	HT Panel - Meters Digital type Multi-function Meter shall be of Accuracy Class: 0.5S	As per tender, MFM accuracy has been asked for 0.5s class but we should provide 0.5 Class. <i>Kindly consider this modification</i>	RFP condition prevails.
36	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 331 Auxiliary Busbars	"Auxiliary busbars each of minimum size 18 sq.mm copper shall be provided."	The contractor shall provide suitable size of Auxiliary Busbars as required.	Bidder shall provide as per the load requirements of the design, complying to relevant IS codes.
37	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 332	Current density of Bus bar	We understand that the Current density for Al bus bar should be 0.8 A/sq.mm & for Cu 1.4 A/sq.mm.	Please refer our response to point no 36
38	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 333 Point 4.6 LT PANELS (MV SWITCHBOARDS) PCC / PMCC / MCC / OTHER MV SWITCHBOARDS	Earthing All vertical panels shall be connected to a tinned copper earth bus bar running throughout the length of the switchboard.	As per clause, Earthing bus is required tinned copper, but all power bus bar is required Al, so we will provide Al bus bar of 40 X 10 mm or GI 65 X 10 mm for Earthing Bus. Kindly allow to consider the same.	Please refer our response to point no 36
39	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS ELECTRICAL - Page No. 387	4.16 DIESEL GENERATOR SET ALONGWITH AMF & SYNCHRONIZING PANEL (F). AMF & SYNCHRONIZING CONTROL PANEL	We understand that rather than providing Separate AMF cum Synchronizing panel, it can be part of Main PCC Panel of Plant. <i>Kindly allow to consider the same</i>	RFP condition prevails.
40	Volume II :- Technical Specification CHAPTER 10 - INSTRUMENTATION SPECIFICATIONS- Page No. 406	Point No. 6. INTRINSIC SAFETY BARRIERS	External Safety barrier not required in PLC Panel because, we consider isolated PLC Module with conformal coated. <i>Kindly allow the same.</i>	RFP condition prevails.
41	Volume II :- Technical Specification CHAPTER10 - INSTRUMENTATION SPECIFICATIONS- Page No. 415/417/420/422/424/426/432	"All the instruments are mentioned with the Service applicability of Sewage / Sewage Sludge /Water Application."	For this CETP-ZLD Project, all instruments should be suitable for the Service applicability of Industrial Effluent.	Yes. Bidder understanding is correct
42	Volume II :- Technical Specification CHAPTER10- INSTRUMENTATION SPECIFICATIONS- Page No. 431	I) PRESSURE GAUGES: Pressure Gauge Dial Size shall be of minimum 150mm.	Kindly allow to consider the dial size of all pressure gauges as 100mm instead of 150mm.	RFP condition prevails.
43	Volume II :- Technical Specification CHAPTER10 - INSTRUMENTATION SPECIFICATIONS- Page No. 451	E) CABLE TRAYS: Cable trays shall be made out of galvanized mild steel sheets of 2.5 mm thickness.	As per tender clause, Authority is asking for GI Cable tray but, considering 7 years of O&M and longer life of cable trays, MOC should be FRP. (FRP Cable Tray Vendors - Silverline/Sumip/EPP) We request you to change the MOC of cable tray from GI to FRP.	Please refer our response to point no 32



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44	Volume II :- Technical Specification – Page No. 298	APPROVED VENDOR LIST FOR MECHANICAL EQUIPMENT	<p>Kindly allow to add and consider the below mentioned STANDARD MAKE for particular item.</p> <p>Sr. No. 6 - Non-Return Valves (Single / Multi door) / Dual Plate Check Valves– G M ENGG Sr. No. 7 - Butterfly Valves – G M ENGG Sr. No. 10 - Ball Valves: G M ENGG Sr. No. 13 - Air Blower Twin lobe: TMVT Sr. No. 14 - Agitator / Mixer: SHIVPAD / VIRKRUPA ENGINEERING Sr. No. 16 - MS Pipes & fittings: ASIAN / APPOLO / LG PIPE / MAXWELL Sr. No. 17 - Chlorinator: CHLOROTECH Sr. No. 21 – Fasteners: KM FASTENER / SWASTIK / UNBREKO Sr. No. 24 – UF Membrane: TORAY / GE-SUEZ Sr. No. 25 – RO Membrane: TORAY Sr. No. 26 - MS Steel Plate Sheet – RINL / SKS ISPAT / MAHAMAYA / AM-NS /</p> <p>STAINLESS STEEL PIPE: APEX / JINDAL / VENUS / SCODA TUBE / INOX TUBE / LG PIPE / MAXWELL STRUCTURE MATERIAL: JINDAL / SAIL / RINL / AM-NS / SKS ISPAT / MAHAMAYA</p> <p>Moreover, the items which are not included in MAKE list, will be selected after submitting credentials of preferred vendor of Contractor</p>	<p>RFP condition prevails.</p> <p>However, Bidder to request for approval during detailed engineering, They have to submit credentials and take approval of Engineer In-charge for items only which is not in the list</p>
45	Volume II :- Technical Specification – Page No. 396	APPROVED VENDOR LIST ELECTRICAL EQUIPMENT / COMPONENT	<p>Kindly allow to add and consider the below mentioned STANDARD MAKE for particular item.</p> <p>Sr. No. 5 - Cables: RR KABLES Sr. No. 6 - MV Motors: CGL Sr. No. 7 - Air Circuit Breaker: Legrand Sr. No. 13-Earth Leakage Circuit Breaker: Legrand / Schneider / L&T Sr. No. 15 – MCCB: Legrand Sr. No. 16-Lighting Fixtures / Luminaires: Polycab Sr. No. 18 - Power Capacitor: EPCOS Sr. No. 19 - APFC Panel: EPCOS Sr. No. 21 - Digital Energy Meter / MFM: ELMEASURE Sr. No. 28 - Cable Jointing Kit: 3M Sr. No. 32 - Control Station (Local PB Stn): HANSEL / HANSU Sr. No. 36 - Junction Boxes: Hensel/Fabricated From Approved Panel Manufacturer Sr. No. 37 - Bus Duct (M.V.): All Approved Panel Manufacturer Sr. No. 44 - GI Cable Trays: Profeb Sr. No. 44 - FRP Cable Trays: Silverline / Sumip / EPP Sr. No. 51 a) - D.G. Set (Engine) – PERKINS Sr. No. 51 b) - D.G. Set (Alternator) – LOREY SOMER</p> <p>Moreover, the items which are not included in MAKE list, will be selected after submitting credentials of preferred vendor of Contractor</p>	<p>Please refer our response to point no 44</p>
46	Volume II :- Technical Specification – Page No. 453	LISTOFAPPROVEDVENDORSFOR INSTRUMENTATION SYSTEM	<p>Kindly allow to add and consider the below mentioned STANDARD MAKE for particular item.</p> <p>Sr. No. 7 - Electromagnetic Flow Meter: EMERSON Sr. No. 8 - Field Transmitter (P, DP, F, L, T): E&H Sr. No. 28 - Instrument Cables (Power, Signal, Control): RR KABLES / LAPP Sr. No. 30 - Junction Boxes: Approved Panel Manufacturer</p> <p>Moreover, the items which are not included in MAKE list, will be selected after submitting credentials of preferred vendor of Contractor.</p>	<p>Bidder can provide Emerson and E&H field transmitters and equipment for all types of equipment. Also refer our response to point no 44</p>
47	Volume II :- Technical Specification CHAPTER 7-SPECIFICATIONS PIPELINES, PIPEWORK AND FITTINGS- Page No. 214/623	DUCTILE IRON PIPES & FITTINGS Linings & Internal lining: Ductile iron pipes and fittings shall have a sulphate resistant cement mortar lining, in accordance with IS 11906 or ISO 4179. Internally pipe shall be SRC Cement mortar lined (as per IS - 8329-2000).	<p>As the effluent TDS is only below 4500ppm for CETP treatment, it will be completely suitable for this concentration of TDS with internal cement mortar lining and external Zinc coating with finishing layer of Bitumen; manufactured, tested and duly marked in strict accordance with & confirming to IS: 8329:2000 (as per latest amendment).</p> <p>We suggest to consider the above specifications for DI pipe & Fittings</p>	<p>RFP condition prevails.</p>



Telangana State Industrial Infrastructure Corporation (TSIIC)

Request for Proposal (RFP) for Selection of Engineering Procurement Construction (EPC) Contractor for Detailed Design, Engineering, Construction, Supply, Installation, Testing, Erection & Commission Zero Liquid Discharge (ZLD) based Common Effluent Treatment Plant (CETP) for Textile Effluent of 5.0 MLD capacity in Phase 1 for Kakatiya Mega Textile Park, Shyampet along with all related Civil, Mechanical and Electrical equipment and accessories, Instrumentation including miscellaneous works etc along with Operation and maintenance of the entire proposed tertiary treatment facilities at site for Seven (7) years

Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
48	Volume II :- Technical Specification CHAPTER 7- SPECIFICATIONS PIPELINES, PIPEWORK AND FITTINGS - Page No. 228	STAINLESS STEEL PIPE& FLANGES The dimension of Pipe and Nominal Weights shall confirm to Schedule 40S of standard ASME B36.19M-2004 & material grade SS 316 as per ASTM A specifications	We request to allow to consider the suitable schedule of SS pipes/fittings/flanges of standard ASME B36.19M-2004 as per the process requirement and compatibility to effluent characteristics.	RFP condition prevails.
49	Volume II :- Technical Specification CHAPTER 7- SPECIFICATIONS PIPELINES, PIPEWORK AND FITTINGS - Page No. 242	1.0 A. TWIN LOBE AIR BLOWERS All the compressor casing shall be water cooled type. Speed of blower : 1200 RPM (max.)	We suggest to allow to consider blower RPM as per 4 pole motor of Blower (i.e. 1400, 1450 RPM). We request to allow to consider Blower/Compressor as an Air Cooled type.	Air cooled compressor may also be considered.
50	Volume II :- Technical Specification CHAPTER 7 - SPECIFICATIONS PIPELINES, PIPEWORK AND FITTINGS - Page No. 245/249/276	3.0 SUBMERSIBLE CENTRIFUGAL VERTICAL PUMP 5.0 SUBMERSIBLE NON-CLOG PUMP 11.0 HORIZONTAL CENTRIFUGAL PUMPS (HSCF) The shut off head of the pump shall be at least 120% of the total head. The pump shall be selected in such a way so that operating point shall lie on best efficiency point (BEP) or within 15 % of BEP flow on either side meeting NPSH requirement. Pump selected with duty point lying on right side of BEP beyond 15 % limit shall not be accepted. The pump shall be selected with intermediate diameter of Impeller. The rated impeller diameter shall be at least 10 mm smaller than the maximum Impeller dia.	As per stated three conditions for Pump selection, there are many chances that pump can not fulfill the all three conditions as per the Pump manufacturer's best selection. We request you to allow the pump selections as per the standard practice of Pump manufacturer with its best performance criteria.	Pump selections as per the standard practice of Pump manufacturer with its best performance criteria can be provided
51	Volume II :- Technical Specification CHAPTER 7- SPECIFICATIONS PIPELINES, PIPEWORK AND FITTINGS - Page No. 267/268	10.0 REVERSE OSMOSIS (RO) SYSTEM FILTRATION SYSTEM The Contractor shall be responsible for providing an RO System consisting of three (3) identical stage I and, identical stage II and identical stage III RO trains with min. 2250 m3/day net permeate capacity with 11000 ppm TDS.	The mentioned statement for RO system is contradictory with respect to Project capacity of 5 MLD with min. 90% recovery (i.e. 4500 m3/day) as well proposed RO system is with Two stage system only. Kindly clarify the same whether to consider 3 stage RO or 2 stage RO.	Please refer our response to point no 1
52	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 61	1.8 Design Requirements i) All water retaining structures shall be constructed in Sulphur Resistant Cement as per IS specification	As the effluent TDS is lower than 5000ppm, we request you to allow the Portland Cement as per IS specifications for all water retaining as well as non-water retaining structure.	RFP condition prevails.
53	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS - ELECTRICAL - Page No. 305	3.6 DESIGN BASIS LV Cabling : Alu Conductor XLPE, excepting for Motor upto and including 3.7kW for which to use 3C x 2.5 sq.mm, Cu conductor, PVC/A or XLPE cables subject to voltage drop within specified limits. Cables having aluminium conductor shall not be less than 6 sq.mm. Control / LCS Ammeter Cables: Multicore 2.5 sqmm Cu cond. PVC / XLPE	Authority is asking for min. 2.5 sq. mm copper cable for LCS but we should provide 1.5 sq. mm copper cable for below 100-meter distance and above 100-meter distance 2.5 sq. mm copper cable shall be accepted. Kindly consider this.	Please refer our response to point no 36
54	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS - ELECTRICAL - Page No. 395	9.0 STATUTORY APPROVAL The Contractor shall be totally responsible for obtaining statutory approval from the chief electrical inspector (CEIG) or any other statutory authority for the entire installation carried out by him unless otherwise specified and agreed. Necessary test reports shall be submitted by him to electrical inspector and Authority. This will be an integral part of the contract and shall not be paid for separately. The contractor shall liaison with local electric supply company for getting power supply and only necessary fees, if any, payable to supply company shall be borne by the Owner.	We understand that the all charges related to HT Power Connection are in client's scope.	RFP condition prevails.
55	Volume II :- Technical Specification CHAPTER 09 - SPECIFICATIONS - ELECTRICAL - Page No. 321	Test Witness The manufacturer shall perform factory tests as per IS / Specs., on equipment in presence of customer's representative / TPI agency, at Vendor / contractor's cost.	TPI agency hiring charges will be in client's scope (Travelling cost is in contractor's scope as per tender terms).	TPI charges shall be in bidder scope
56	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 61	Civil work	We understand that all UF-RO tanks (i.e. UF Feed tank, UF Reject tank, UF permeate/RO-1 Feed tank, RO-2 Feed tank, RO-2 Reject tank) shall be covered with slab. Kindly confirm.	Bidder understanding is correct
57	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 58	1.4.2 Live Load Live loads shall be in general as per I.S. 875. However, the following minimum loads shall be considered in the design of structures: (iii) Live load on all other floors walkways, stairways and platforms. : 5.00 kN/m2	We request you to consider the following condition for Civil work: 1.4.2 Live Load Live loads shall be in general as per I.S. 875. However, the following minimum loads shall be considered in the design of structures: (iii) Live load on all other floors walkways, stairways and platforms. : 3.00 kN/m2	RFP condition prevails.
58	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 59	1.5 Joints 1.5.2 Expansion joints of suitable gap at suitable intervals not more than 30 m shall be provided in all walls, floors and roof slabs of water retaining structures.	We request you to consider the following condition for Civil work: 1.5.2 Expansion joints of suitable gap at suitable intervals not more than 45 m shall be provided in all walls, floors and roof slabs of water retaining structures.	RFP condition prevails.
59	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 59	1.6.1 All underground or partly underground liquid containing structures shall be designed for the following conditions: (i) liquid depth to be considered up to full height of wall and no relief due to soil pressure from other side to be considered.	We request you to consider the following condition for Civil work: 1.6.1 All underground or partly underground liquid containing structures shall be designed for the following conditions: (i) liquid depth to be considered up to full height of wall and relief due to soil pressure from other side to be considered.	RFP condition prevails.



Telangana State Industrial Infrastructure Corporation (TSIIC)

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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
60	Volume II :- Technical Specification CHAPTER-4 CIVIL AND BUILDING WORKS - Page No. 60	1.6.1 All underground or partly underground liquid containing structures shall be designed for the following conditions: (v) structures shall be designed for uplift in empty conditions with no live load with the appropriate water table.	We request to eliminate the mentioned condition for water retaining structure.	RFP condition prevails. Bidder shall design as per geotechnical investigation data.
61	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 80	26.0 OTHER SCOPE OF WORKS: 1. Authority shall design the Effluent Conveyance Network (ECN) and Recycled water Conveyance Network (RWCN) shall be constructed by Authority. However, Testing & Commissioning, the operation and maintenance of these networks, throughout the Agreement Period, shall be done by the Bidder at his own cost.	Kindly share the details of proposed Effluent Conveyance Network (ECN) and Recycled water Conveyance Network (RWCN) along with Pipe diameter, MOC as well as running meter, Nos. of member industries, so that its cost towards the Operation and Maintenance (O&M) of these networks can be estimated properly.	Kindly refer to the annexure I for the Effluent Conveyance Network (ECN) and Recycled water Conveyance Network (RWCN) Layout Plan
62	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 80	26.0 OTHER SCOPE OF WORKS: 3. Install Real time online Monitoring systems at the Source points of effluents (i.e., at Unit level) and at CETP, duly integrating the same with TSPCB / TSIIC /SPV for monitoring & ensuring compliance as per the prevailing regulations.	We understand that Complete CETP with ZLD and its internal piping network is in scope of Contractor. Only the maintenance of Effluent Conveyance Network (ECN)	Bidder understanding is correct
63	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 80	26.0 OTHER SCOPE OF WORKS: 3. Install Real time online Monitoring systems at the Source points of effluents (i.e., at Unit level) and at CETP, duly integrating the same with TSPCB / TSIIC /SPV for monitoring & ensuring compliance as per the prevailing regulations. 4. Installation and management of Central Command & online monitoring	We understand that the defined this scope to execute is in the scope of Client only.	At source the equipment shall be provided by member units however monitoring shall be done by the contractor.
64	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 80	26.0 OTHER SCOPE OF WORKS: 6. Provide for covered storage facility for sludge generated by CETP and periodically transfer the sludge to a site designated by TSIIC. It is clarified that disposal of sludge (as per the stipulated guidelines of MoEF&CC and TSPCB) is also under the scope of the Bidder.	As per Price Bid, we understand that disposal of sludge (as per the stipulated guidelines of MoEF&CC and TSPCB) is also under the scope of the Bidder, however, the cost towards disposal of sludge shall be finalized by Tariff committee on award of contract which will be applicable.	Bidder understanding is correct.
65	Volume I: - Invitation for Bids, Instructions to Bidders & Conditions of Contract – Page No. 80	26.0 OTHER SCOPE OF WORKS: 15. Obtain all statutory from the Competent Authorities	We request and insist to consider that the all-statutory approvals shall be in Client scope. However, the contractor will assist to get the approvals from concerned authority.	Bidder scope to Obtain all statutory clearances from the competent authorities such as CFE/CFO etc for CETP Works. However, TSIIC has obtained Environment Clearance(EC) & Consent for Establishment (CFE) for Mega Textile Park Project by MOEF&CC and TSPCB Respectively.
66	Volume IV - Price Bid – Schedule of Payment Milestone – Page No. 18	2.0 Civil Works A.Primary Treatment Units (weightage 30% of civil work) B.Biological treatment unit (weightage 40% of civil work) C.Building as per Approved drawings (weightage 30% of civil work)	There is no clarity about the Tertiary Treatment unit consideration for Payment Milestone. Kindly include the same along with revised payment milestone.	The revised Criteria is amended as below: 2.0 Civil Works A.Primary Treatment Units (weightage 30% of civil work) B.Biological treatment unit (weightage 30% of civil work) C.Building as per Approved drawings (weightage 25% of civil work) D. Tertiary Treatment unit (weightage 15% of civil work)
67	General	-	Kindly share the Geographical Soil investigation report and AutoCAD file of Layout plan of site.	Kindly refer to the annexure I for conveyance lines with Invert Levels and annexure II for the required drawings and reports and details for geographical Soil investigation report at park level, conveyance lines with Invert Levels and AutoCAD file of Layout plan of site. Data provided is for guidance only. However Bidder may carry out its own investigation by visiting the site.
68	Vol I: Section -I Part (A) Pg No 6 of 623	The time of completion of the work shall be 9 months including monsoon but excluding 6 months trial run and stabilization period and acceptance of plant from the date of written order to commence the work 5 MLD capacity ZLD plant	RO High pressure pumps and Membranes , evaporator are Long lead delivery items. Hence kindly provide the completion period of 15 months but excluding 6 months trial run and stabilization period.	RFP condition prevails.
69	Vol I: Section-I (Part – A) Pg No 5 of 623	2. Operation and maintenance of the entire proposed tertiary treatment facilities at site for Seven (7) years	Kindly confirm the O&M period of 7 years is including Defect liability period.	Bidder understanding is correct
70	Vol I: Section-I (Part – A) Pg No 6 of 623	The O&M period shall commence from the date of successful commissioning and completion of work and acceptance of plant by Authority	Kindly confirm the O&M period of 7 years is including Defect liability period.	Bidder understanding is correct
71	Vol I: Section-I (Part – A) Pg No 9 of 623	Defect Liability Period - 24 months after commissioning	Kindly confirm the O&M period of 7 years is including Defect liability period.	Bidder understanding is correct
72	Vol II:Chapter 3, RO system Pg No 146 of 623	Working hours of RO system – 24 hrs.	We suggest 20-22 hrs operating hours for UF RO system. Kindly review and confirm the same	Please refer our response to point no 1



Telangana State Industrial Infrastructure Corporation (TSIIC)

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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
73	Vol IV: Pg No 623 of 623	Performance Guarantee Stage Wise: At the outlet of clarifloculator BOD < 450ppm , COD < 2500 ppm	As per tender document, the stage wise performance guarantee for BOD ~55 % reduction and COD ~30% reduction is there. Practically it is not possible to reduction after clarifloculator since it is involved any biological treatment process. <u>Kindly review and confirm</u>	Please refer our response to point no 1
74	Vol I :Section - 1 Instruction to Bidders A. General (ii) Experience Criteria Pg No 17 of 623	(1) Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One ETP with ZLD System having minimum 5 MLD capacity	With reference to the experience criteria, we drawn to your noticed that, the One Number of 5 MLD ETP with ZLD system in India were completed by selected bidders only. We here by requesting concern authorities, kindly provide relaxation on qualification criteria as below: One CETP with ZLD System having minimum 2.5 MLD capacity OR Three ETP with ZLD system, each work having minimum 1 MLD capacity OR Two ETP with ZLD, each work having minimum 1.5 MLD capacity OR One ETP with ZLD, each work having minimum 2.5 MLD capacity <u>Kindly review and confirm</u>	Please refer our response to point no 3
75	Vol II : Table-1 : Characteristics of Plant influent and effluent Pg No 110 of 623	O&G, BOD, COD, TSS, TDS only given	Kindly share the following inlet Parameters pH Temperature Total Hardness as CaCO3 Calcium Magnesium Alkalinity Chloride Sulphide Pottasium Sulphate Phosphate	Bidder to consider based on the similar project experience
76	Vol-I: SECTION-I (PART- B) I-B: Pg no 7. MEMORANDUM OF WORKS IN BRIEF	Bid submission due date	We requested you to extended the bid submission due date shall be 3 weeks from the date of Prebid reply. Kindly review and confirm	Please refer our response to point no 13
77	Vol-I: F.Special conditions of cotract- SI no 2: scope of works, Pg no 68.	Qualification Criteria: Technology Qualification Criteria	As it specifically mentions to provide SBR technology and it is a technology driven plant, it also involves the process designs and supply of core equipment by the technology provider including technical support. Therefore, we request you to provide the qualification criteria for technology provide.	Please refer our response to point no 1

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78	Volume II, Technical Specifications, Cl. No.1.7, page no. 11	<p>Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water</p> <p>RFP Volume II, Technical Specifications, Chapter 2, PROCESS DESCRIPTION FOR PROPOSED PLANT, Page no. 13</p> <table border="1"> <thead> <tr> <th>Sl.No</th> <th>Parameters</th> <th>Inlet</th> <th>EQT Outlet</th> <th>Clariflo-culator Outlet</th> <th>SBR outlet</th> </tr> </thead> <tbody> <tr> <td></td> <td>Flow</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>1.</td> <td>O&G ppm</td> <td><100</td> <td><70</td> <td><10</td> <td>BDL</td> </tr> <tr> <td>2.</td> <td>BOD, ppm</td> <td><1000</td> <td><1000</td> <td><450</td> <td><30</td> </tr> <tr> <td>3.</td> <td>COD, ppm</td> <td><3500</td> <td><3500</td> <td><2500</td> <td><100</td> </tr> <tr> <td>4.</td> <td>TSS, ppm</td> <td><600</td> <td><600</td> <td><100</td> <td><30</td> </tr> <tr> <td>5.</td> <td>TDS, ppm</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><4000</td> </tr> </tbody> </table> <p>biological treatment of effluent to remove BOD, COD, Suspended Solids and partial Nitrogen and Phosphorus.</p>	Sl.No	Parameters	Inlet	EQT Outlet	Clariflo-culator Outlet	SBR outlet		Flow	5	5	5	5	1.	O&G ppm	<100	<70	<10	BDL	2.	BOD, ppm	<1000	<1000	<450	<30	3.	COD, ppm	<3500	<3500	<2500	<100	4.	TSS, ppm	<600	<600	<100	<30	5.	TDS, ppm	<4000	<4000	<4000	<4000	<p>We understand that the biological system shall be designed for partial removal of the Nitrogen & Phosphorous. However, the inlet nitrogen & phosphorous is not provided in the effluent characteristics provided under Volume II, Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water on page no. 11. Hence, we request you to kindly provide the inlet TKN, TP (as P), Sulphides and any other pollutants / heavy metals present if any.</p>	Bidder to design as per their experience in similar projects
Sl.No	Parameters	Inlet	EQT Outlet	Clariflo-culator Outlet	SBR outlet																																									
	Flow	5	5	5	5																																									
1.	O&G ppm	<100	<70	<10	BDL																																									
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Sl.No	Parameters	Inlet	EQT Outlet	Clariflo-culator Outlet	SBR outlet																																									
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4.	TSS, ppm	<600	<600	<100	<30																																									
5.	TDS, ppm	<4000	<4000	<4000	<4000																																									
80	Volume II Annexure I, Drawings,	Process Flow Diagram	<p>We understand that a bypass shall be provided after Equalization tank directly towards inlet of SBR system. If so then the provided inlet parameters for SBR shall be as per outlet parameters from Equalisation tank provided under Volume II: Technical Specifications, Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water.</p> <p>Kindly Confirm</p>	Please refer our response to point no 79																																										
81	Volume II, Technical Specifications, Cl. No.1.7, page no. 11	<p>Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water</p> <table border="1"> <thead> <tr> <th>Sl.No</th> <th>Parameters</th> <th>Inlet</th> <th>EQT Outlet</th> <th>Clariflo-culator Outlet</th> <th>SBR outlet</th> </tr> </thead> <tbody> <tr> <td></td> <td>Flow</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>1.</td> <td>O&G ppm</td> <td><100</td> <td><70</td> <td><10</td> <td>BDL</td> </tr> <tr> <td>2.</td> <td>BOD, ppm</td> <td><1000</td> <td><1000</td> <td><450</td> <td><30</td> </tr> <tr> <td>3.</td> <td>COD, ppm</td> <td><3500</td> <td><3500</td> <td><2500</td> <td><100</td> </tr> <tr> <td>4.</td> <td>TSS, ppm</td> <td><600</td> <td><600</td> <td><100</td> <td><30</td> </tr> <tr> <td>5.</td> <td>TDS, ppm</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><4000</td> </tr> </tbody> </table>	Sl.No	Parameters	Inlet	EQT Outlet	Clariflo-culator Outlet	SBR outlet		Flow	5	5	5	5	1.	O&G ppm	<100	<70	<10	BDL	2.	BOD, ppm	<1000	<1000	<450	<30	3.	COD, ppm	<3500	<3500	<2500	<100	4.	TSS, ppm	<600	<600	<100	<30	5.	TDS, ppm	<4000	<4000	<4000	<4000	<p>As SBR being a completely biological process and the inlet COD to BOD ratio (2500:450) is very high. In this scenario the COD value at the outlet of SBR will be around 1600 – 1700 mg/l.</p> <p>Hence, we request you to recheck with the inlet parameters to be considered for Biological(SBR) process designing.</p>	Please refer our response to point no 79
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82	Volume I – ITB, F. Special Condition of contracts, Cl. No. 2, page no. 68, 2.1, point no. 2,	<p>The major proposed treatment units to be provided for 5 MLD capacity comprise of the following as minimum requirement:</p> <ol style="list-style-type: none"> 1.Screening, 2.Pre-treatment 3.Ozonation 4.SBR based aeration process 	<p>As SBR being a completely biological process and the inlet COD to BOD ratio (2500:450) is very high. In this scenario the COD value at the outlet of SBR will be around 1600 – 1700 mg/l.</p> <p>Hence, we request you to recheck with the inlet parameters to be considered for Biological(SBR) process designing.</p>	Please refer our response to point no 79																																										

Telangana State Industrial Infrastructure Corporation (TSIIC)

Request for Proposal (RFP) for Selection of Engineering Procurement Construction (EPC) Contractor for Detailed Design, Engineering, Construction, Supply, Installation, Testing, Erection & Commission Zero Liquid Discharge (ZLD) based Common Effluent Treatment Plant (CETP) for Textile Effluent of 5.0 MLD capacity in Phase 1 for Kakatiya Mega Textile Park, Shyampet along with all related Civil, Mechanical and Electrical equipment and accessories, Instrumentation including miscellaneous works etc along with Operation and maintenance of the entire proposed tertiary treatment facilities at site for Seven (7) years

Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response																		
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85	Volume II- Technical Specifications, DETAILED MECHANICAL SPECIFICATIONS, Page no. 243, cl. No. 1.0 – A. Twin lobe Air Blowers	<table border="1"> <tbody> <tr> <td>1</td> <td>Flow medium</td> <td>Air</td> </tr> <tr> <td>2</td> <td>Design Parameters:</td> <td></td> </tr> <tr> <td>a</td> <td>Min. / Max. air inlet Temperature</td> <td>5 / 45 Degree C</td> </tr> <tr> <td>b</td> <td>Design RH</td> <td>65%</td> </tr> <tr> <td>c</td> <td>Altitude</td> <td>As per Site Location</td> </tr> <tr> <td>3</td> <td>Capacity (Nm³/hr)</td> <td>As per design in Nm³/hr (defined @ 0 degree C, 1.013 bar & 0 % Rh)</td> </tr> </tbody> </table>	1	Flow medium	Air	2	Design Parameters:		a	Min. / Max. air inlet Temperature	5 / 45 Degree C	b	Design RH	65%	c	Altitude	As per Site Location	3	Capacity (Nm ³ /hr)	As per design in Nm ³ /hr (defined @ 0 degree C, 1.013 bar & 0 % Rh)	We understand that the provided capacity & head of the Air blowers under Chapter 3: PROCESS DESIGN CRITERIA AND DETAIL SPECIFICATIONS, Blower Details are tentative and as per Volume II, Mechanical Specifications blower to be provided as per design. Hence, we understand that air blowers for biological system to be provided as per design / technology provider. Kindly Confirm.	Please refer our response to point no 79
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89	Volume II, Technical Specifications, Chapter 2, PROCESS DESCRIPTION FOR PROPOSED PLANT Page no. 13	The positive displacement type air blowers shall be provided for the air diffuser system.	We understand that we have to provide Turbo Air Blowers / Positive Displacement blowers for Aeration System required for Biological Treatment (SBR).Kindly Confirm.	Bidder to note twin lobe blowers is not acceptable																		
90	VOL II: Technical specification, Sr. No 14, page 441 (u)	Specific Requirements for PLC (u) Operator cum Engg. Work Station at Main Control Room	People available in STP plant are not skilled to do programming in PLC & SCADA system and it is dangerous to do changes in PLC & SCADA with them. for this Expert programmer is required, who always carry required licenses and without them. Hence, we request you to consider runtime software for PLC & SCADA.	RFP condition prevails.																		



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91	Vol I: 27. Other Special Conditions, Page : 84	Penalty charges for decline in the guaranteed output (for any given day)	Kindly note that outlet flow will be vary based on the inlet feed flow only. Kindly review and confirm the same.	The outlet guarantee quantity shown at RFP Clause 27.11 of Vol-I, are demonstrated for full inlet volume. The outlet shall be guaranteed as per percentage indicated for other inlet volumes and penalized accordingly.
92	Chapter 2, Process Description for Proposed Plant, Page : 113	Screen Filter	In process description Screen filter is mentioned. But detail specifications Pressure sand filter details are given . Kindly clarify whether bidder will provide screen filter or Pressure sand filter.	Bidder to note screen filter is a pre filter for UF and PSF shall be provided post biological system
93	Chapter 3, Process Design Criteria & Detail Specifications Page : 137	Pressure Sand filter	In process description Screen filter is mentioned. But detail specifications Pressure sand filter details are given . Kindly clarify whether bidder will provide screen filter or Pressure sand filter.	Please refer our response to point no 92
94	Chapter 2, Process Description for Proposed Plant, Page : 117/623	Sludge Treatment Description:	Shall we use latest specification/ technology for sludge dewatering treatment .	Please refer our response to point no 1
95	Chapter 3, Process Design Criteria & Detail Specifications Page : 32&133 /623	Automatic Mechanical Coarse Screen & Automatic Fine screen	Standard Engineering practice always standby screen will be manual screen only instead of automatic mechanical screen . Kindly review and confirm the the same.	RFP condition prevails.
96	Chapter 3, Process Design Criteria & Detail Specifications, Page 133/623	Grit removal system	Raw effluent is received from Closed conduit system.Due to that Grit Removal is not required. Hence kindly review and confirm the same.	RFP condition prevails.
97	Chapter 3, Process Design Criteria & Detail Specifications, Page 135	Clarified water tank & SBR Feed Pump	Clarified water tank (SBR feed tank) & feed pumps are provided by the technology provider or decided authority. Kindly confirm .	Please refer our response to point no 79
98	General	0	In Process Design Criteria & Detail Specifications pump flows are mismatching with	Please refer our response to point no 79
99	General	Kindly provide the Invert level of Effluent	0	Please refer our response to point no 67
100	General	Kindly provide the Geotech report	0	Please refer our response to point no 67
101	Vol IV: Schedule of Milestone Payment, Page 621/623	3. Mechanical work: 1) On supply of Machinery / Equipment's on pro-rata basis against monthly running bills at Site - 65% 2) On completion of Erection Works 25% 3)On completion of Testing and Commissioning of Equipment 3% 4)On completion of Commissioning of the Plant and issuance of taking over Certificate 5%	Request you to kindly consider the following payment terms for mechanical works. 1) On supply of Machinery / Equipment's on pro-rata basis against monthly running bills at Site - 75% 2) On completion of Erection Works 15% 3)On completion of Testing and Commissioning of Equipment 5% 4)On completion of Commissioning of the Plant and issuance of taking over Certificate 5%	RFP condition prevails.
102	Vol-I: 13.0 Submission of Documents along with the bid Pg: 76 of 623	Operating cost which shall include power, manpower, chemical, consumables of proposed treatment units, etc., shall be furnished for evaluation purpose	Power cost will be client scope however unit power rate bidder to bidder will vary. Hence we will furnish power consumption details along with bid for evaluation purpose. Kindly review and confirm.	RFP conditions shall prevails. Bidder to refer to TS Electrical department for power Tariff.
103	Vol-I: 26.0 Other scope of works Pg: 83 of 623	Real time sampling and monitoring of effluents at source i.e., at unit level before discharging into the effluent conveyance network and also at CETP (inlet and outlet parameters)	Bidder scope is only monitoring the effluent flow at source of inlet chamber of unit member. Supply, Erection and Commissioning, Calibration of flow monitoring sysem is unit member scope. Kindly review and confirm.	At source the equipment shall be provided by member units however monitoring shall be done by the contractor.
104	Vol-I: 26.0 Other scope of works Pg: 83 of 623	Monitoring of Conveyance Networks (Effluent and Recycled water) and monitoring systems throughout the agreement Period	Bidder scope is only monitoring the effluent flow at source of inlet chamber of unit member. Supply, Erection and Commissioning, Calibration of flow monitoring sysem is unit member scope. Kindly review and confirm.	Please refer our response to point no 103
105	Vol-I: 27.0 Other Special Conditions Pg: 84 of 623	Sludge disposal during stabilization period also shall be under the scope of successful Bidder and the same shall be provided separately for this period as well. The estimated distance for Sludge disposal at Hyderabad is approx. 400 km – two ways	As per pre-bid meeting,we presume that the slude disposal cost for the stabilization period (6 months) and O&M period (7years) is not in bidder scope. Kindly review and confirm.	It is in bidder scope. Please refer to response to point no 10
106	Vol-IV: Price Proposal -Grand Summary Pg: 613 of 623	Price Bid -O&M fixed Cost: Bidder shall not consider the cost towards sludge disposal to TSDF - Hyderabad during stabilization period of 6 months.	As per pre-bid meeting,we presume that the slude disposal cost for the stabilization period (6 months) and O&M period (7years) is not in bidder scope. Kindly review and confirm.	It is in bidder scope. Please refer to response to point no 10
107	Vol-II: Detailed Mechanical Specifications 8. Ultra Filtration System Pg: 361 of 623	The ultra filtration membrane shall have a nominal pore size smaller that 0.04 micron at minimum 98% pore distribution	Kindly review and confirm the UF membrane pore size upto 0.1 micron.	please refer our response to point no 1



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108	Volume I :- Invitation for Bids, Instructions to Bidders & Conditions of Contract- Page No. 15 Experience Criteria – Clause 1	(1)Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One ETP with ZLD System having minimum 5 MLD capacity Each Bidder shall submit only one Bid, either individually, or a partner in a Joint Venture (JV) to gain new capacity and expertise required for the project. (2) The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP plant of 1 MLD Capacity and minimum one ETP ZLD plant of 5 MLD Capacity during last 10 years. In case of JV, any partner member shall have experience of operating and maintaining wastewater Treatment Plant of minimum one CETP plant of 1 MLD Capacity and minimum one ETP ZLD plant of 5 MLD Capacity for at least one year during above period , having membrane filtration (UF), (RO) and Multiple Effect Evaporator	(1)Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One CETP with or without ZLD System having minimum 5 MLD capacity Each Bidder shall submit only one Bid, either individually, or a partner in a Joint Venture (JV) to gain new capacity and expertise required for the project. (2) The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP ZLD plant of 1 MLD Capacity and minimum one CETP plant of 5 MLD Capacity during last 10 years. In case of JV, any partner member shall have experience of operating and maintaining wastewater Treatment Plant of minimum one CETP ZLD plant of 1 MLD Capacity and minimum one ETP/CETP plant of 5 MLD Capacity for at least one year during above period , having membrane filtration (UF), (RO) and Multiple Effect Evaporator	Please refer our response to point no 3
109	General	-	1. While submitting a bid, should both the tender scheme proposal and the alternate scheme proposal be quoted.	Bidder need to submit only one design proposal.
110	General	-	2. Detailed lab analysis report for raw effluent feed parameters such as Chloride, Sulphate, silica, hardness etc to be provided.	Bidder to design as per their experience in similar projects
111	General	-	3. List of members units and effluent generated by each member unit to be provided.	Bidder to note that overall plant design shall be done for 5 MLD of effluent which will be made available at CETP. List of members units and effluent generated shall provided to the successful bidder in due course.
112	General	-	4.Distance from each Member units to CETP to be provided.	Please refer our response to point no 111
113	General	-	5.Type of flow control system to be used in raw effluent conveyance system.	Bidder to note Automatic valves connected to flow meters and Analysers through PLC/SCADA
114	General	-	6. Type of monitoring and control system for raw effluent and recycled product water system for transferring flow details from Member Unit to CETP and CETP to Member Units.	Please refer our response to point no 113
115	General	-	7. MOC of piping for raw effluent conveyance system and recycled product water system to be provided to estimate Maintenance cost.	HDPE Pipelines shall be considered for effluent conveyance and Treated water conveyance line.
116	General	-	8. Pipe size for raw effluent conveyance system and recycled product water system to be provided for estimating the O&M cost.	Please refer our response to point no 67
117	General	-	9. Invert level of incoming raw effluent pipe from member units in receiving chamber to be provided.	Please refer our response to point no 67
118	General	-	10. The recycled product water pump head was given by the authority, and it is guaranteed to be adequate.	Bidder to note that if it is found inadequate post detailed engineering mutually acceptable decision shall be taken then.
119	General	-	11.Soil report to be provided.	Please refer our response to point no 67
120	General	-	12.Site plan and layout of CETP to be provided in CAD version.	Please refer our response to point no 67
121	General	-	13.Fuel allowed for boiler is not mentioned, to be provided.	Bidder has his own choice for fuel selection based on their system design subject to approval by Pollution Control Board. It is to be noted that the entire fuel handling system including storage for adequate time is under bidder scope
122	General	-	14. We request you to accept 4MLD ETP with UF and RO instead of 5 MLD ETP for Technical Qualification.	Please refer our response to point no 3



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123	General	-	B. Financial Clarification: 1. Whether variable O&M cost will be pass through for example, if the power tariff increases in the upcoming respective years this will be not part of escalation.	Please refer Vol-I: Clause 28.2 for Escalation. "The adjustments w.r.t. substantial impact in the O&M price (increase or decrease by 5%) due to electricity or others O&M related, may lead to revision in Tariff as per the Tariff Committee"
124	General	0	2. We request to accept the Parent Company Financials for meeting the turnover.	Parent company credentials are acceptable on submission of letter from the parent company.
125	General	-	Disposal of Salt: Salt disposal in TSDF, Hyderabad (OR) we assume it will comply Telangana Pollution control board.	Please refer our response to point no 10
126	VOLUME-1: SECTION-I (PART- B) I-B: Pg no 7 MEMORANDUM OF WORKS IN BRIEF	Bid Due date /Submission date: 25.08.2022 at 16:00 hours at TSIIC office	Bid submission date: The date of submission, for the Bidding documents, mentioned is on 26-08- 2022. As the time provided is very short, we will be not in a position to meet out the requirements for Technical aspects. Hence, we kindly request you to provide us an extension of 30 days, for us to prepare the complete scheme & Schedule accordingly.	Please refer our response to point no 13
127	Volume -1: CLAUSE 5.3, b (ii), pg no 15 As per prequalification required it is stated that	"Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One ETP with ZLD System having minimum 5 MLD capacity	Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity OR One ETP with ZLD System having minimum 5 MLD capacity In case of bidder not having ZLD experience his own bidder can nominate	Please refer our response to point no 3
128	Volume -1: CLAUSE 5.2(h), pg no 13 As per prequalification required it is stated that	Maximum two members of the JV will be permitted.	JV Partners: We also request you to allow 3 JV partners (1 lead partner + 2 JV partners) instead of 2 partner to gain capacity and resources required for proposed tender.	Three members of the JV can be permitted as 1 lead partner + 2 other partners, Provided one of the members of the JV firm shall be its Lead Member who shall have a majority (at least 51% share). The other members shall have a share of not less than 20% each for this project.
129	pg No 17/623 (RFP Vol -I, Pg 15) Section 5- 5.3 (b) (ii)	Experience Criteria: Bidder Shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and / or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF, RO & MEE for treatment of wastewater (Appendix-E) as under; One CETP with ZLD system having minimum 1MLD capacity and One ETP with ZLD system having minimum 5MLD capacity.	Section 5 (b) (ii) says 1MLD CETP & 5MLD ETP with ZLD system but whereas APPPENDIX-E says 1MLD CETP/ 5MLD ETP with ZLD system. Kindly requesting to accept either 1MLD CETP or 5MLD ETP with ZLD system as an Experience Criteria.	Please refer our response to point no 13
130	pg No 83/623 (RFP Vol -I, Pg 80) Section 26-1	Other scope of works: 1. Authority shall design the Effluent Conveyance Network (ECN) and Recycled water Conveyance Network (RWCN) shall be constructed by Authority. However, testing & Commissioning, the operation & maintenance of these	Since the O&M of ECN & RWCN is part of bidder scope, requesting to share the complete piping network drawings to understand and estimate the maintenance cost correctly	Please refer our response to point no 67
131	pg No 83/623 (RFP Vol -I, Pg 80) Section 26-2	Other scope of works: 2. Integrate CETP with ECN & RWCN is in the scope of the bidder	Please elaborate the term Integrate to understand the cost to be estimated for integration	O&M of ECN & RWCN network shall be in the scope of the bidder. Also, as part of O&M necessary pipe connections/ fittings/ electromechanical works to integrate shall be under bidder scope.
132	pg No 83/623 (RFP Vol -I, Pg 80) Section 26-3	Other scope of works: 3. Install real time online monitoring systems at the source points of effluents (i.e. at Unit level) and at CETP, duly integrating the same with TSPCB/TSIIC/SPV for monitoring & ensuring compliance as per prevailing regulations	Since the piping network of ECN & RWCN is in the scope of Authority, requesting TSIIC to keep this under Authority to install real time online monitoring systems at the source points of effluents. But Monitoring of these individual systems at CETP and also real time online monitoring system at CETP will be only the bidder scope. Kindly confirm	Bidder to note at source the equipment shall be provided by member units however monitoring shall be done by the contractor.
133	pg No 83/623 (RFP Vol -I, Pg 80) Section 26-7	Other scope of works: 7. Real time sampling & monitoring of effluents at source i.e. at unit level before discharging into the effluent conveyance network and also at CETP	Since the piping network of ECN & RWCN is in the scope of Authority, requesting TSIIC to keep this under Authority to install real time sampling & monitoring of effluents at source at unit level before discharging into the ECN. But Monitoring of these individual systems at CETP and also real time sampling system at CETP will be only the bidder scope. Kindly confirm	Please refer our response to point no 132
134	pg No 83/623 (RFP Vol -I, Pg 80) Section 26-9	Other scope of works: 9. Provide treated water to industrial units through piped network provided by TSIIC	We understand that the scope of bidder to ensure the Supply of treated water only in RWCN network. Kindly confirm	Bidder understanding is correct



Telangana State Industrial Infrastructure Corporation (TSIIC)

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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
135	pg No 83/623 (RFP Vol -II Pg 11) Section 26-15	Other scope of works: Obtain all statutory from the competent authorities	Kindly confirm the availability of EC & CFE	it is to clarify that it is Bidder scope to Obtain all statutory from the competent authorities such as CFE/CFO etc for Proposed CETP Works. However, TSIIC has obtained Environment Clearance(EC) & Consent for Establishment (CFE) for Mega Textile Park by MOEF&CC and TSPCB Respectively.
136	pg No 110/623 (RFP Vol -II Pg 11) Table-1-1	Characteristics of plant influent and effluent ; 1 x 5MLD-Wash water	Process scheme talks about Ozonation but the inlet and outlet of Ozonation is not shown here in table-1. Please kindly provide the same	Please refer our response to point no 79
137	pg No 110/623 (RFP Vol -II Pg 11) Section 1.9	Battery limit; Authority shall provide 33/11KV supply at one point in the substation from then on, all works including HT transmission line shall be under scope of bidder	Kindly confirm the distance to the CETP from where the 33KV line will be supplied by Authority, Please provide tentative distance for estimating cost correctly	Please refer our response to point no 67 - AutoCAD drawing of the layout annexed.
138	pg No 153/623 (RFP Vol -II Pg 54)	PLC/PC/SCADA Based Automation system for plant: The Tertiary effluent treatment plant of 2.5MLD stream shall be designed for automatic operation through a PLC	Why only 2.5MLD for automatic operation, since the tertiary systems of UF & RO are by defaults comes as automatic. Kindly elaborate.	Bidder to note that the entire 5MLD CETP operation as specified under Vol-II shall be operated through PLC/SCADA as per clause 5.2 of Vol-II. It is under the scope of the bidder to ensure fail safe operation through PLC/SCADA.
139	pg No 157/623 (RFP Vol -II Pg 58)	Chapter -4, Civil & Building works- Point 1.3 Section 1.3: Design life; The design life of all structures and buildings shall be 60 years	Requesting once again to confirm on the design life of structures and buildings as it varies with respect to the treatment unit and other buildings & Structures	Shall be as per NBC/relevant standards.
140	pg No 570/623 (RFP Vol -II Pg 471) Chapter -12, O&M of CETP; 1.0B	Part A- Scope of works; 1.0B; O&M shall be inclusive of manpower, chemicals, consumables, maintenance & repair including spares, maintenance of conveyance systems etc., excluding power. All other specification and requirement shall be as per the CETP requirement. Scope of works; 3.0 a); Operate the plant efficiently for 7 years including all chemicals, consumables, parts or components, labor transportation and other charges, except for cost of power and supply of influent into CETP, power charges shall be directly paid by the bidder	Please kindly confirm the cost of power during the O&M is excluded from the scope of bidder. It will be directly paid by the authority	Power cost shall be included and in the scope of bidder
141	pg No 601/623 (RFP Vol -III Pg 16)	Guarantee Parameters- G) As per tender min. recovery, UF & RO recovery as Min. >90%	Requesting to provide the break up of TDS like silica, hardness, ca, mg, F, heavy metals, alkalinity, nitrates, sulphates etc., so that the recovery of 90% as per tender requirement can be crosschecked before submitting the tender. Requesting to put min. as 85% recovery instead of 90%	Recovery >90% holds good . Please refer our response to point no 75
142	pg No 613/623 (RFP Vol -IV Pg 10) Price Bid-1	Price Bid- O&M Variable Cost: O&M of entire proposed CETP with ZLD treatment facilities at site for 7 years	Kindly confirm whether the power cost to be included or excluded	Power cost shall be included
143	pg No 613/623 (RFP Vol -IV Pg 10) Price Bid-1	Price Bid- O&M Variable Cost: O&M of entire proposed CETP with ZLD treatment facilities at site for 7 years	Kindly confirm whether GST to be inclusive of the cost to be quoted	Bidder to include GST and quote
144	pg No 614/623 (RFP Vol -IV Pg 10) Price Bid-1	Price Bid- O&M Variable Cost: All maintenance for effluent conveyance network and treated water conveyance network	Kindly provide the piping network drawings to estimate the maintenance cost accordingly	Please refer our response to point no 67
145	pg No 110/623 (RFP Vol -II Pg 11) & 623/623 (RFP Vol -IV Pg 30)	Table-1 & performance guarantee-stage-wise-1 Characteristics of plant influent and effluent ; 1 x 5MLD-Wash water & Performance guarantee of stage-wise parameters	Table-1 & Performance guarantee-stage-wise parameters are both contradictory especially in terms of TDS so requesting to confirm which one to be followed	Bidder to note that the permeate TDS shall not exceed 500 ppm at any stage and individual stage recovery to be provided as per bid
146	-	Guidelines	Kindly provide CFE copy for understanding the APPCB compliances to be followed for this CETP	Bidder can collect data from site: https://tspcbmanifest.cgg.gov.in/TSPCBApprovalCertificates/IndustriesCFE.aspx
147	-	Invert level	Kindly provide the invert level of effluent will be received at the CETP, since accordingly the depth of receiving chamber and screen chambers will be designed.	Please refer our response to point no 67 and It indicative and for reference purpose only.
148	-	Soil & Geotechnical data	Kindly please provide Topographical survey & other piping networks drawings for estimating the maintenance cost accordingly	Please refer our response to point no 67
149	General	Soil & Geotechnical data	Kindly please provide Topographical & Geotechnical report at CETP or provide us the nearest Geotechnical report of any industry at textile park	Please refer our response to point no 67
150	General	Layout	Provided layout doesn't talk about the inlet and outlet storage of effluents. Kindly provide APPCB norms for CETP to be followed.	Bidders to make their own assessment and comply to TSPCB prescribed norms, standards, guidelines are available at https://tspcb.caa.gov.in
151	pg No 30/623 (RFP Vol -I Pg 30) Cl 45.1	Within 7 days of receipt of the notification of award (Letter of Work Order Acceptance) from the Authority, the successful Bidder shall furnish to the Authority a security in an amount of 5% percent of Construction Price & 5% retention money will be deducted from running account bill.	Request Authority to change it to 15 days instead of 7 days	The clause may be read as: Within 15 days of receipt of the notification of award (Letter of Work Order Acceptance) from the Authority, the successful Bidder shall furnish to the Authority a performance security in an amount of 5% percent of Construction Price & 5% retention money will be deducted from running account bill.
152	pg No 56/623 (RFP Vol -I Pg 53)	Construction Manager (or Engineer-in-Charge / Plant manager (Representative of TSIIC) is the person / authority appointed by the Authority as to deal to all the matters related to the execution and operation of the contract	Pls clarify within how many days Engineer shall be appointed. We understand that payments to Engineer will be made by authority?	Construction Manager (or Engineer-in-Charge / Plant manager (Representative of TSIIC) appointed by the Authority are already available. Bidder to note the required personnel appointed by Authority shall be paid by the Authority.



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
153	pg No 59/623 (RFP Vol -I Pg 59) Cl 20.1	The Authority shall give possession of all parts of the Site to the Contractor	Request authority to provide encumbrance free land	The land provided is encumbrance free
154	pg No 62/623 (RFP Vol -I Pg 59) Cl 20.1	If possession of a part is not given by the date stated in the Contract Data, the Authority is deemed to have delayed the start of the relevant activities and in such case, on request from Contractor the extension in time limit shall be considered as per the merit the case	Request Authority to provide Extension of time as well as financial compensation	RFP conditions shall prevail
155	pg No 63/623 (RFP Vol -I Pg 63) Cl 40.2	The Engineer shall check the details given in the Contractor's statement and within 14 days certify the amounts to be paid to the Contractor.	Request authority to clarify within how many days payment will be made.	RFP conditions shall prevail
156	pg No 67/623 (RFP Vol -I Pg 64) Cl 44.1	cost of supervision for the extended period shall be borne by the Contractor	Request authority to delete this clause	RFP conditions shall prevail
157	pg No 64/623 (RFP Vol -I Pg 64) Cl 44.1	This payment shall be paid monthly and shall be equal to the full fee of the....	We understand that during course of Contract, payment for supervision shall be borne by authority.	Bidder understanding is correct.
158	pg No 70/623 (RFP Vol -I Pg 67) Cl 52.2	The Contractor stops work for 28 days when no stoppage of work is shown on the current program and the stoppage has not been authorized by the Engineer;	If Contractors stops the work due to Force Majeure condition, it should not be treated as breach of Contract. Kindly modify the clause	Pleas refer the RFP Vol-I: Force Majeure clause no 11 in the general conditions of contract which says "Neither party shall be liable to the other for any loss or damage occasioned /caused by or arising out of act of God and in particular "unprecedented floods", volcanic eruption, earthquakes or other acts etc. It to clarify that, In the Force Majeure condition, bidder shall not be treated as breach of Contract.
159	pg No 70/623 (RFP Vol -I Pg 67) Cl 52.4	Notwithstanding the above, the Authority may terminate the Contract for convenience	Request authority to delete this clause	RFP conditions shall prevail
160	pg No 70/623 (RFP Vol -I Pg 67) Cl 53	Payment upon Termination: If the Contract is terminated at the Authority's convenience or because of a fundamental breach of Contract by the Authority, the Engineer / Construction Manager shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.	Kindly replace the clause with : Upon Termination on account of an Authority Event of Default, the Authority shall pay to the Concessionaire, by way of Termination Payment, an amount equal to: 120% (one hundred and fifty per cent) of the Book Value of Project + 105% of the unexpired / future cash flow discounted at the rate of 12%, for the avoidance of doubt the future cash flow shall be submitted and accepted by the Authority in the initial DPR .The Concessionaire shall be entitled to withdraw the Performance Bank Guarantee, if subsisting, provided that the Performance Bank Guarantee shall be withdrawn only after substitution of the Concessionaire in accordance with the provisions of Substitution Agreement, if any.	RFP conditions shall prevail
161	pg No 73/623 (RFP Vol -I Pg 73) Cl 15	Defect liability period for entire works including all civil, piping & appurtenances, mechanical, electrical & instrumentation works and including all equipment necessary to keep the plant in operating condition at design efficiency shall be of 2 years	We understand that it will be 2 years from commissioning. Please confirm	Yes. Bidder understanding is correct Defect liability period for entire works including all civil, piping & appurtenances, mechanical, electrical & instrumentation works and including all equipment necessary to keep the plant in operating condition at design efficiency shall be of 2 years from the date of commissioning .
162	pg No 73/623 (RFP Vol -I Pg 64) Cl 15 pg No 478/623 (RFP Vol -II Pg 477) Cl 2.11	All working drawings shall be checked by the Engineer / Construction Manager and work can commence only upon getting approval of the working drawing.	Request authority to approve all drawings within 7 days of submission.	Authority may approve all the drawings within 7 days depending on merit of the submitted designs and drawings.
163	pg No 77/623 (RFP Vol -I Pg 74) Cl 15.0	Delays to work by reason of lack of approvals of working drawings and shop drawings are deemed to be a risk the Contractor is taking with full knowledge and no compensation shall be claimed by the Contractor or none given by the Authority, on account of such delay.	Request authority to delete this clause as contractor cannot be held responsible for the same.	RFP conditions shall prevail.
164	pg No 576/623 (RFP Vol -II Pg 477)	The Contractor shall employ all the required staff (and in no case less than the number specified in the tender which is mandatory) within 7 days of award of the	Request authority to change it to 30 days instead of 7 days.	The clause may be read as:
165	-	General	Request authority to provide separate clause of authority obligations.	RFP conditions shall prevail
166	-	General	Request authority to clarify the location where plant has to be setup.	Please refer our response to point no 67
167	-	General	Request authority to provide interest on delayed payments @ SBI PLR +2%	RFP conditions shall prevail



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
168	pg No 8/623 (RFP Vol -I, Pg 6)	SEMD- Amount DD- Rs. 8150000	Request to consider Bank Guarantee and share the Bank details to prepare the BG. Favour of IFSC A/C Bank Address	The EMD shall be in the form of Demand Draft (DD) /Bank Guarantee drawn from any Nationalized /Scheduled Banks of India in the favour of "TSIIC Limited" payable at Hyderabad. Bank name: Kotak Mahindra bank A/c no: 304011029457 IFSC code: KKBK0007451 Branch: Abids road, Hyderabad
169	pg No 9/623 (RFP Vol -I, Pg 7)	Submission date 25/08/2022	Request to extend by more 30 days after clarification of all queries.	Please refer our response to point no 13
170	pg No 9/623 (RFP Vol -I, Pg 7)	Construction Period: 9 (including monsoon period excluding 6 months trial run and stabilization period)	Request to extend the construction period to 24 months.	RFP condition shall prevail.
171	pg No 9/623 (RFP Vol -I, Pg 7)	Trial Run: 6 months	Please reduce it to 3 months as per standard practices in all tenders.	RFP condition shall prevail.
172	pg No 23/623 (RFP Vol -I, Pg 21)	Escalation 15.3 Prices quoted by the Bidder shall be firm. No escalation in price will be given.	Request to consider price variation during construction period	RFP condition shall prevail.
173	pg No 23/623 (RFP Vol -I, Pg 21)	Escalation- O&M 15.3 Prices quoted by the Bidder shall be firm. No escalation in price will be given.	Request to consider price variation during trial run and O&M period	Please refer Vol-I: Clause 28.2 for Escalation. "The adjustments w.r.t. substantial impact in the O&M price (increase or decrease by 5%) due to electricity or others O&M related, may lead to revision in Tariff as per the Tariff Committee"
174	pg No 17/623 (RFP Vol -I, Pg 15)	ii)Experience Criteria: Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And One ETP with ZLD System having minimum 5 MLD capacity	We wish to inform you that most CETPs have a ZLD system comprising of RO and MEE only, and hence we request to kindly amend the clause by considering UF or RO and MEE as follows. Furthermore, we request that the requirements for both CETP and ETP be removed and replaced with CETP or ETP as follows. Bidder shall have experience of having completed similar works during last 10 years ending last day of month previous to the one in which bids are invited "Similar Works" means experience of developed and/or designed, constructed and commissioned CETP/ETP with ZLD system comprising UF (Ultrafiltration) & / or (RO) and Multiple Effect Evaporator for treatment of waste water (Appendix-E) as under: One CETP with ZLD System having minimum 1 MLD capacity And/ or One ETP with ZLD System having minimum 5 MLD capacity The Bidder should have experience of operating and maintaining common effluent Treatment Plant of similar work as above of minimum one CETP plant of 1 MLD Capacity or minimum one ETP ZLD plant of 5 MLD Capacity during last 10 years.	Please refer our response to point no 3
175	General	Electricity During Trial Run	Kindly confirm whether department shall pay Electricity and Diesel for DG during trial run period.	It bidder scope to consider the power costs and DG costs during Trial Run.
176	General	Electricity During O&M	Kindly confirm whether department shall pay Electricity and Diesel for DG during O&M period.	It bidder scope to consider the power costs and DG costs during O&M.
177	pg No 494/623 (RFP Vol -II, Pg 395)	9.0 STATUTORY APPROVAL The Contractor shall be totally responsible for obtaining statutory approval from the chief electrical inspector (CEIG) or any other statutory authority for the entire installation carried out by him unless otherwise specified and agreed. Necessary test reports shall be submitted by him to electrical inspector and Authority. This will be an integral part of the contract and shall not be paid for separately. The contractor shall liaison with local electric supply company for getting power supply and only necessary fees, if any, payable to supply company shall be borne by the Owner.	We understand that the various statutory and non-statutory clearances shall be processed by the contractor. All required fees have to be paid by the contractor. However, in our experience, many department fees must be paid through online transactions from the principal employer's bank account. In such a case, how should it be done? Please clarify and confirm such payment.	Telangana has single window online system (TS-iPASS) (https://ipass.telangana.gov.in) for all clearances. Bidder may submit an online application with relevant payments to receive various clearances. TSIIC shall provide necessary support documents, if any.

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Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response																																																															
178	Vol IV: Performance Guarantee - Stage Wise, Pg 623 of 623 Vol-II: Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water pg 110 of 623	Performance Guarantee Stage wise and Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water	As per our understanding, bidder doesn't need to provide intermediate guarantees. Bidder shall provide guarantees only at the outlet of biological treatment and RO system. Please confirm.	Please refer our response to point no 79																																																															
179	Vol -II :9.0 STATUTORY APPROVAL, Pg 494 of 623	<table border="1"> <thead> <tr> <th>Sl.No</th> <th>Parameters</th> <th>Inlet</th> <th>EQT Outlet</th> <th>Clarifier-outlet</th> <th>SBR outlet</th> <th>Media filter outlet</th> <th>UF outlet</th> <th>RO outlet</th> </tr> </thead> <tbody> <tr> <td></td> <td>Flow</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>1.</td> <td>O&G ppm</td> <td><100</td> <td><70</td> <td><10</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> <td>BDL</td> </tr> <tr> <td>2.</td> <td>BOD, ppm</td> <td><1000</td> <td><1000</td> <td><450</td> <td><30</td> <td><10</td> <td><5</td> <td>BDL</td> </tr> <tr> <td>3.</td> <td>COD, ppm</td> <td><3500</td> <td><3500</td> <td><2500</td> <td><100</td> <td><80</td> <td><50</td> <td>BDL</td> </tr> <tr> <td>4.</td> <td>TSS, ppm</td> <td><600</td> <td><600</td> <td><100</td> <td><30</td> <td><10</td> <td><1</td> <td>BDL</td> </tr> <tr> <td>5.</td> <td>TDS, ppm</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><4000</td> <td><500</td> </tr> </tbody> </table> Statutory approval from the authority for the entire and agreed. Necessary test Authority. This will be an ately. The contractor shall power supply and only borne by the Owner.	Sl.No	Parameters	Inlet	EQT Outlet	Clarifier-outlet	SBR outlet	Media filter outlet	UF outlet	RO outlet		Flow	5	5	5	5	5	5	5	1.	O&G ppm	<100	<70	<10	BDL	BDL	BDL	BDL	2.	BOD, ppm	<1000	<1000	<450	<30	<10	<5	BDL	3.	COD, ppm	<3500	<3500	<2500	<100	<80	<50	BDL	4.	TSS, ppm	<600	<600	<100	<30	<10	<1	BDL	5.	TDS, ppm	<4000	<4000	<4000	<4000	<4000	<4000	<500	We request you to please keep all the required approvals in client's scope only. Please confirm.	RFP condition prevails.
Sl.No	Parameters	Inlet	EQT Outlet	Clarifier-outlet	SBR outlet	Media filter outlet	UF outlet	RO outlet																																																											
	Flow	5	5	5	5	5	5	5																																																											
1.	O&G ppm	<100	<70	<10	BDL	BDL	BDL	BDL																																																											
2.	BOD, ppm	<1000	<1000	<450	<30	<10	<5	BDL																																																											
3.	COD, ppm	<3500	<3500	<2500	<100	<80	<50	BDL																																																											
4.	TSS, ppm	<600	<600	<100	<30	<10	<1	BDL																																																											
5.	TDS, ppm	<4000	<4000	<4000	<4000	<4000	<4000	<500																																																											
180	VOL-II: Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water pg 110 of 623 and Vol-IV: Performance Guarantee - Stage Wise, Pg 623 of 623	Inlet Parameters as per Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water	The inlet parameters mentioned for "Textile effluent" to be considered for designing of the treatment plant. Please confirm.	Bidder can consider as per Vol-II Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water																																																															
181	VOL-II: Table – 1 : Characteristics of Plant influent and effluent 1 X 5 MLD – Wash water pg 110 of 623 and Vol-IV: Performance Guarantee - Stage Wise, Pg 623 of 623	TDS guarantees asked at the outlet of each treatment unit	There is possibility that there will be increase in the TDS of effluent after addition of chemicals during coagulation and flocculation process. Therefore, bidder will not be able to guarantee of TDS < 4000 ppm throughout the process. Please confirm.	RFP conditions prevail.																																																															
182	Vol-IV:Performance Guarantee - Stage Wise, Pg 623 of 623	TDS mg/l <4000	We request you to please provide detailed TDS break up, which will help us to suitably design the recycle system.	Bidder to consider based on their own experience on similar projects																																																															
183	Vol-IV:Performance Guarantee - Stage Wise, Pg 623 of 623 and Vol-II : 1.8. Recovery required, pg 110 of 623	MEE - Salt generated shall have dryness not less than 90% and Moisture content in the salt from Mechanical evaporation - <15%	The mentioned two references from the tender document are contradictory to each other. We understand that the salt generated from the evaporation system shall have moisture content less than 15%. Please confirm the same.	Bidder understanding is correct																																																															
184	Vol-II: 1.9. Battery Limit, Pg 110 of 623	3. Storage of salt to be disposed in secured land fill	We understand that the disposal of salt shall be in the scope of client only. If it is to be considered in the contractors scope, please specify the distance upto disposal point.	Please refer our response to point no 10. For TSDF please refer Clause 27.15 of Vol-I special conditions of contract of RFP																																																															
185	Vol-II: 1.9. Battery Limit, Pg 110 of 623	5. Any other requirements within CETP – Service water/Chemicals/Instrument air/ Instrument power etc., shall be arranged by the Bidder at his own cost.	We request you to please provide the service water and instrument air at the battery limit. Please confirm.	Bidder shall consider in their scope																																																															
186	Vol IV: PRICE BID – O&M VARIABLE COST, pg 616 of 623	First year price shall be the same as that of Stabilization period and subsequent years shall be on incremental basis to a maximum extent of 5% of previous year annually. Cost of the base price for O&M is fixed at Rs 115/m3 of treatment without sludge disposal.	We understand that O & M price is fixed at Rs 115/m3 and bidder is not allowed to quote above the same amount and this is base price to be considered for first year. After first year, we can increase the cost by 5% annually. Please confirm.	Bidder to note O&M starts after stabilization period only, however bidder may quote any price for their O&M and incremental charge shall be 5% per year after first year O&M completion Also refer Clause No. 27.12 of Vol-I special conditions of contract of RFP																																																															
187	Vol IV: PRICE BID – O&M VARIABLE COST, pg 617, 618 of 623	Price mentioned for the power charges (per KWHr) is indicative. It is the bidder scope to verify the same with the Telangana Electricity Dept. Accordingly bidder shall submit the proposal.	Power Charges specified in the table is Rs. 7.65/ kWhr. Please specify the power tariff to be considered.	Power Tariff shall be considered as per the prevailing tariff by TSSPDCL.																																																															
188	Vol IV: PRICE BID – O&M VARIABLE COST, pg 618 of 623	Chemical prices as indicated below: (basic cost)	We understand that, we need to consider the chemical rates specified in the tender for evaluation. Please confirm.	It is to clarify that chemical rates specified are indicative and for evaluation purpose only. However bidders are free to consider their own rates																																																															
189	Vol II: Annexure I Drawings, Pg 583 of 623	Area Availability	The available area for the proposed plant as mentioned in the Annexure I is 7.14 acres. Please confirm.	TSIIC provides the required land (6.5 Acre Approx) to the bidder for development.																																																															
190	General	Grade Level	a)What is the level of Area Grading will be handed over to Contractor before starting of work. B) What will be the Finished Floor level? C) Ground Level raising is required above existing level?	Bidders are encouraged to make site visit to assess the same. The site will be handed " as is where is basis". It is bidder scope to maintain suitable Finished Floor level.																																																															
191	General	Time Extension	Considering the volume of work involved, request you to please allow time extension by four weeks.	Please refer our response to point no 13																																																															
192	Vol- I: 13.3 Pg 22 of 623	The technical proposal containing the below mentioned details / supporting documents to be submitted in hard copy. (x) Process design / data sheets, sludge calculation, hydraulic flow diagram with levels, layout plan with dimensions, UF & RO projection, Electrical load list, with electrical single line diagram.	It is requested to client to allow submission of Load list only during bid stage.Complete SLD shall be submitted during detail engineering for clients approval. Since SLD consists of loads included in load list, separate SLD submission is not required. Please confirm.	Bidder to note load list will not provide details of incomer transformer etc and hence SLD shall be provided.																																																															



Telangana State Industrial Infrastructure Corporation (TSIIC)

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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
193	Vol -II: Technical Specifications-ELECTRICAL & INSTRUMENTATION WORKS, Pg 152 of 623	It shall be the Contractor's responsibility to obtain adequate incoming HT power at CETP Site from Electric Supply Company based on the maximum demand load to meet the entire demand of existing CETP/Plants. All necessary liasoning for the same shall be done by the Contractor in consultation with Engineer-in- Charge.	Both the clauses provided in tender are contradictory. It is understood that authority shall provide supply at one point and contractors scope shall start from that point onwards. Please confirm.	Yes. Bidder understanding is correct Authority shall provide 33/11KV supply at one point in the substation in the park. From then on, all works including HT transmission line to the CETP plot shall be under scope of Bidder.
194	Vol -II: Technical Specifications-Scope, Pg 153 of 623	Authority shall provide 33/11KV supply at one point in the substation from then on all works including HT transmission line shall be under scope of Bidder.	Please provide the distance in meters from where supply will be made available.	Please refer our response to point no 67 for AutoCAD Layout drawing
195	Vol -II: Technical Specifications-ELECTRICAL & INSTRUMENTATION WORKS, Pg 152 of 623 and Scope, Pg 153 of 623	• 33KV Outdoor Switchyard with required GOD structure, etc. to feed HT Breaker Panel to meet total power requirement (existing as well as proposed plant power requirement). For information Bidder shall note that the proposed plant (CETP) is 11KV substation / metering panel and contractor shall consider necessary HT cable length	Both the clauses provided are contradicting. Please confirm whether 11kv supply or 33kv supply shall be available.	Please refer our response to point no 193
196	General	-	If contractor has to arrange main incoming power supply, then please provide the distance of nearest Electrical substation.	Please refer our response to point no 194
197	Vol -II: Technical Specification- , Pg 473 of 623	Technical literature on the Microprocessor based Electronic Soft starter offered along with authorization letter from the company stating the service back up confirmation during warranty period & there after	It is understood that same has to be submitted after the award of contract for Clients approval. Please confirm.	Bidder understanding is correct
198	Vol -II: Technical Specifications-Pg 551 of 623	VENDOR DATA REQUIREMENT (INSTRUMENTATION)	Please allow submission of Instrument list only. Other documents are more relevant to detail engineering and are provided by Suppliers after award of contract. We confirmed that same shall be provided after award of contract for clients approval. Please confirm.	Bidder request accepted however the list shall provide minimum technical details like analog/digital/smart/hart/power connection details etc.,
199	CHAPTER 1, INTRODUCTION, Page No.102 (of 623), Volume II, Tender Document	General	Kindly provide us the Contour survey for the proposed CETP area if the same is available with department. Kindly provide us the proposed FGL for this plant	Please refer our response to point no 190
200	CHAPTER 1, INTRODUCTION, Page No.102 (of 623), Volume II, Tender Document	General	Kindly provide us the FGL to be maintained for the proposed CETP area.	Please refer our response to point no 190
201	Clause 1.4, Scope of work, Page No.106 (of 623), Volume II, Tender Document	SCOPE OF WORK 1.4. Soil Investigation The Contractor in co-ordination with the Engineer in Charge has to determine at each location of a building or a water retaining structure the soil characteristics (safe bearing capacity, angle of friction, cohesion) in order to calculate the dimensions of the foundations.	We understand that the soil investigation is in bidder scope. Kindly provide us the Soil report if the same is available with department.	Please refer our response to point no 67
202	Page No.126 (of 623), Volume II, Tender Document & Clause 5.31.5, Detailed Specifications For Concrete, Page No.193 (of 623), Volume II, Tender Document SPECIFICATIONS OF MATERIALS, Page No.256 (of 623), Volume II, Tender Document	ff) All water retaining structures for effluent handling/treatment plant units shall be constructed in S. R. Cement as per IS specification. The approved makes shall be Ambuja, Ultratech, or other make as approved by engineer-in-charge. 1. Cement : The cement shall be ordinary Portland Cement confirming to IS:269 or Sulphur Resistance cement as specified. Under special circumstances other cements may be used with prior approval of Engineer-in-charge. Cement shall conform to M 3 M-3 Cement 3.1 Cement shall be ordinary Portland cement 53 grade confirming to IS -12269 or its latest edition OR Portland Pozzolana Cement (Fly Ash based), confirming to IS: 1489, Part I (Latest Edition). The use of OPC or PPC shall be based on approved Mix design or as directed by Engineer In-charge.	There is dissimilarity in between the given clauses. Kindly confirm the grade of cement to be used for water retaining structures.	Sulphur Resistance cement as specified (SRC) shall be considered for water retaining structures.



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
203	Page No.126 (of 623), Volume II, Tender Document SPECIFICATIONS OF MATERIALS, Page No.256 (of 623), Volume II, Tender Document	ff) All water retaining structures for effluent handling/treatment plant units shall be constructed in S. R. Cement as per IS specification. The approved makes shall be Ambuja, Ultratech, or other make as approved by engineer-in-charge. M-3 Cement For Mix Design concrete cement consumption shall be as per IS – 3370. Only AMBUJA ULTRATEC Cement shall be used. The contractor shall insist to procure cement directly from the manufacturer company or its local authorized dealer /distributor.	As per both the given clauses, the cement make to be used is not clearly mentioned. Kindly clarify the statement.	Bidder may choose approved makes of Ambuja, Ultratech, or other make as approved by engineer-in-charge.
204	Chapter 4, CIVIL AND BUILDING WORKS, Page No.160 (of 623), Volume II, Tender Document	1.8 Design Requirements b) The reinforced concrete for water retaining structures shall have a minimum cement content of 380 kg/m ³ with a maximum 20 mm size aggregate and 330kg/m ³ with a maximum 40 mm size aggregate as per IS : 3370 (Part I-IV).	As per Table no. 5, Page No. 20 IS - 456-2000, Minimum Cement content is 320 Kg/m ³ for RCC M30 Grade. Kindly allow the bidder to consider the same.	RFP conditions prevail
205	Chapter 4, CIVIL AND BUILDING WORKS, Page No.160 (of 623), Volume II, Tender Document	1.8 Design Requirements	We presume that all Liquid retaining structures will be designed based on "Limit state method" as per IS3370. Kindly confirm.	Bidder may adopt any design method as per the IS codal Norms. However bidder scope is to submit the vetted/proof checked designs and drawings from NIT/IIT/JNTU or any other reputed Institutes approved by the Authority.
206	CHAPTER 4, CIVIL AND BUILDING WORKS, Page No.165 (of 623), Volume II, Tender Document & CHAPTER-5 DETAILED SPECIFICATIONS CIVIL WORKS, Page No. 214 (of 623), Volume II, Tender Document	1.13 Buildings and Structures 4. All internal masonry surfaces finish shall have 15 mm thick plain faced cement plaster in cement mortar (1:4) with neat lime or neeru finish on top. Over this, one coat of primer and two coats of plastic emulsion paint of approved quality and shade shall be provided. 12.0 Plaster : 12.1 Inside plaster: Inside Cement plaster shall be of 20 mm thick cement plaster with approved water proofing compound in water retaining part of all units, including free board portion	Both the given clauses are contradicting each other. Kindly confirm the thickness of internal plaster for cost estimation purpose.	Bidder may consider 20 mm thick cement plaster for water retaining structures and 15 mm for all other structures.
207	Chapter 4, CIVIL AND BUILDING WORKS, Page No.168 (of 623), Volume II, Tender Document	1.15 Site Drainage 1.15.1 Storm Water Drainage Storm water drains adjacent to the existing and proposed roads (under this Contract) shall be sized for a rainfall intensity of 80 mm/hr, allowing for 100% runoff. Drains adjacent to roads shall be in brick masonry (1:5) of appropriate thickness, topped with 75 mm thick M 15 precast concrete covers and plastered internally in cement mortar (1:4) 20 mm thick.	Kindly provide the sizes of drains.	Shall be provided as per the site requirements and as per the standards.
208	CHAPTER-5 DETAILED SPECIFICATIONS CIVIL WORKS, Page No. 170 (of 623), Volume II, Tender Document	1.0 Clearing The Sites : 1.5 The contractor shall have to dismantle the existing concrete / steel structure obstructing in construction area above as well as below ground shall be removed and cleared of as directed.	Kindly confirm the scope of dismantling work of existing concrete / steel structure	There are no existing structures at this site.
209	General	Compound Wall	We presume that CETP Compound wall will be of Brick masonry with RCC pillars at 3mc/c. Kindly confirm.	Bidder understanding is correct
210	General	Mobilization Advance	The bidder requests to provide interest free mobilization advance of atleast 10% of project cost.	No mobilization advance shall be provided
211	General	Opex and Capex of the project	The bidder requests to share/ provide the detailed Capex and opex cost. The bidder requests to provide the bifurcation of the project cost. Please provide the exact Capex value and Opex value cost	Bidder to assess based on their similar project experience
212	Vol- II: Technical Specifications: pg 129 of 623	Clause:c) As-Built Drawings: The contractor shall get the as-built drawings / documents reviewed and certified by Authority's engineer and project management consultants or Third-Party Inspection Agency (if applicable) representative at site prior to submitting these documents for records	We request you to please consider third party inspection charges in client's scope only. Please confirm.	Certification of as built drawings alone in the Authority Scope



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
213	Vol-I: pg 32 of 623	45 PERFORMANCE SECURITY DEPOSIT 5% of Contract value (Construction EPC Cost) towards the Construction Performance Security to TSIIC within 30 days from the date of issue of the Letter of Intent (LoI)	Whereas, as per 45 PERFORMANCE SECURITY DEPOSIT, Within 7 days of receipt of the notification of award (Letter of Work Order Acceptance) from the Authority, the successful Bidder shall furnish to the Authority a security in an amount of 5% percent of Construction Price & 5% retention money will be deducted from running account bill. Please advice on the time frame fro submission of security deposit.	Please refer our response to point no 151
214	Cls 15.3, Pg 23 of 623	15.3 Prices quoted by the Bidder shall be firm. No escalation in price will be given.	Request you to please provide price escalation on materials like Cement, Steel and chemicals etc. considering fluctuations in market conditions.	RFP conditions prevail
215	Vol -I: General Conditions of Contract Cl. 8.1 Page 56	Other Contractors: The Contractor shall cooperate and share the Site with Other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.	We understand that, the contractor will be entitled for compensation as per actuals, if there happens to be any modifications after the bid date due to Other Contractors, public authorities, utilities, and the Employer.	RFP conditions prevail
216	Vol -I: General Conditions of Contract Cl. 12.1 Page 57	Contractor's Risks: All risks of loss of or damage to physical property and of personal injury and death, which arise during and in consequence of the performance of the Contract risks, are the responsibility of the Contractor.	We request to enlist the Contractor's risk to avoid ambiguity.	RFP conditions prevail
217	Vol -I: General Conditions of Contract Cl. 17.1 Page 58	Approval by the Engineer: The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them if they comply with the Specifications and Drawings.	The Timeline for approval of Specifications and Drawings submitted by the Contractor is not clear in this tender, thus we request to clarify the same. Normally it shall be approved within 7 days after submission.	Please refer our response to point no 162
218	Vol -I: General Conditions of Contract Cl. 17.5 Page 59	Approval by the Engineer: All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.	The Timeline for approval of Specifications and Drawings submitted by the Contractor is not clear in this tender, thus we request to clarify the same. Normally it shall be approved within 7 days after submission.	Please refer our response to point no 162
219	Vol -I: General Conditions of Contract Cl. 33.1 Page 62	Identifying Defects: The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.	We understand that the cost pertaining to uncover and test for defect will be born by the Contractor only if there is any defect found during such test.	Bidder to consider all costs to their scope
220	Vol -I: General Conditions of Contract Cl. 38 Page 63	Variations: All Variations shall be included in updated Programs produced by the Contractor.	We understand that any variation to the Contract will be payable to the Contractor as per actuals. Kindly confirm.	Any deviation not covered in the contract but required for successful implementation of CETP project, shall be carried out by bidder at their own cost. No additional payment will be made by the Authority.
221	Vol -I: General Conditions of Contract Cl. 40.2 Page 63	Payment Certificates: The Engineer shall check the details given in the Contractor's statement and within 14 days certify the amounts to be paid to the Contractor.	We understand that RA bills will be paid to the Contractor within 14 days of submission of monthly statement. Kindly Confirm.	The clause may be read as: Payment Certificates: The Engineer shall check the details given in the Contractor's statement and within 7 days certify the amount to be paid to the Contractor. Authority shall then make the payments within 7 days
222	Vol -I: General Conditions of Contract Cl. 41.1 Page 64	Payment Terms for Turnkey Contract: 100% Running bills against completion of work. Monthly one bill Minimum Amount of running bill shall be 200.0 Lacs of respective works under all milestones defined in Contract Data.	The minimum limit of monthly bill seems very huge. We propose to make monthly payments as per the actual work done to ease the cash flows.	RFP conditions prevail
223	Vol -I: General Conditions of Contract Cl. 41.1 Page 64	Notes: 1. From Every running bill 5% amount would be recovered towards retention money. This amount would be released on successful commissioning on submission of equal amount of Bank Guarantee for defect liability period of 2 years and as per memorandum and as per Appendix-C	We propose to keep defect liability period for 1 year only instead of 2 years.	RFP conditions prevail



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
224	Vol -I: General Conditions of Contract Cl. 44.1 Page 64	Liquidated Damages and Incentives: If the Contract period is extended due to the omissions and/or commissions of Contractor, the cost of supervision for the extended period shall be borne by the Contractor. This payment shall be paid monthly and shall be equal to the full fee of the Supervising Consultant divided by the Contract period by the number of months in the contract Period.	We request to add at the bold part that "provided such delays are attributable to the Contractor".	RFP conditions prevail
225	Vol -I: General Conditions of Contract Cl. 44.2 Page 65	Liquidated Damages and Incentives: If the Contractor fails to complete the work under contract within the stipulated completion date, he shall pay liquidated damages to the Authority at the rate stated in the Contract Data for each week or part that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the contract data. Even if, a part of the work is completed, if it cannot be put into operation because of the non completion of the remaining works, the liquidated damages shall be calculated on the full capital value of the contract. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Authority may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.	We have observed that the % of liquidated damages is not covered under Contract Data, thus we request to incorporate the same. Normally 0.05% of cost of concerned works is deducted on weekly basis and the maximum limit is kept at 10% of cost or remaining work. Please confirm.	The clause may be read as: If the Contractor fails to complete the work under contract within the stipulated completion date, he shall pay liquidated damages to the Authority at the rate of 0.1% (zero point one per cent) of the Agreement Value for each week or part that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the contract data. Even if, a part of the work is completed, if it cannot be put into operation because of the non completion of the remaining works, the liquidated damages shall be calculated on the full capital value of the contract. The total amount of liquidated damages not exceeding 10% (ten per cent) of the Agreement Value and shall be recovered by appropriation from the Performance Security or otherwise
226	General	Interest on Delayed Payments	The Contractor shall not be penalised for the fault of Employer, thus we request to incorporate the Interest clause in case of delayed payment at the rate of SBI plr rate + 5%.	No interest shall be entertained for the delayed payment and Authority shall make best efforts to make payments promptly.
227	General	Termination by the Contractor on default of Employer	The Contractor have observed that there is no clause for "Termination by the Contractor on Employer's default" thus we request to incorporate the relevant para pertaining to same.	RFP condition Prevails. Please refer clause no 52. and 53 of Vol- 1 of RFP
228	General	Limitation of Liability	We request to incorporate the relevant para pertaining to "Limitation of liability".	The clause "Limitation of Liability" may be read as: Except in cases of criminal negligence or wilful misconduct, (a) the Contractor shall not be liable to the TSIIC in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, or loss of profits of interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the TSIIC; and (b) the aggregate liability of the Contractor to the TSIIC, whether under the Contract, in tort or otherwise, shall not exceed the aggregate of the total Contract Price (including the monthly payment during the Operations Period), provided that this limitation shall not apply to any obligation of the Contractor to indemnify the TSIIC with respect to patent infringement.



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Corrigendum – I: Responses to Pre-bid Queries

Point No	Section Reference, Clause No, page no in the RFP	Existing Clause	Question/ Query/ Clarification/ Relaxation Sought	Authority Response
229	General	Change in law	We request to incorporate the relevant para pertaining to "Change in law".	<p>The clause " Change in law" may be read as:</p> <p>"Change in Law" means the occurrence of any of the following after the Base Date*:</p> <p>(a) the enactment of any new Indian law;</p> <p>(b) the repeal, modification or re-enactment of any existing Indian law;</p> <p>(c) the commencement of any Indian law which has not come into effect until the Base Date; or</p> <p>(d) a change in the interpretation or application of any Indian law by a judgement of a court of record which has become final, conclusive and binding, as compared to such interpretation or application by a court of record prior to the Base Date.</p> <p>* Base Date means the last date of the calendar month, which precedes the Bid Due Date by at least 28 (twenty eight) days;</p> <p>If as a result of Change in Law, the Bidder suffers an increase/decrease in costs or reduction in net after-tax return or other financial burden, the aggregate financial effect of which exceeds the higher of Rs. 1 crore (Rupees one crore) and 0.5% (zero point five percent) of the Realisable Fare in any Accounting Year, the Bidder may so notify TSIIC and propose amendments to this Agreement so as to place the Bidder in the same financial position as it would have enjoyed had there been no such Change in Law resulting in the cost increase/decrease, reduction/increase in return or other financial burden as aforesaid. Upon notice by the Bidder, the Tariff Committee shall meet, as soon as reasonably practicable but no later than 30 (thirty) days from the date of notice, and either agree on amendments to this Agreement or on any other mutually agreed arrangement.</p>
230	General	Indemnity clause	We request to incorporate the relevant para pertaining to " Indemnity by the Contractor as well as Employer".	<p>The clause "Indemnity by Contractor" may be read as:</p> <p>bidder do hereby bind ourselves to pat all the claims which may come (a) under workmen's compensation Act 1923, with any statutory modification thereof and rules there under or other wise for or in respect of any damage or compensation payable in connection with an accident or injury sustained (b) under Minimum wages Act 1948, (c) Under Payment of Wages Act, 1936, (d) Under the contract Labour (Regulation of Abolition Act 1970), by any workman engaged for the performance of the business treating to the above contract i.e., failing such payment of claims of workmen engaged in the above work, contractor abide in accepting for the recovery of such claims effected from any of contractor assets with the department.</p>
231	General	Suspension clause	We request to incorporate the relevant para pertaining to " Suspension by the Contractor and Employer".	RFP conditions prevails.
232	General	Suspension clause	We request to incorporate the relevant para pertaining to " Suspension by the Contractor and Employer".	RFP conditions prevails.

Sd/-
Chief Engineer

Telangana State Industrial Infrastructure Corporation (TSIIC)

ANNEXURE

Sl.NO	Item	Decription	Link Details
Annexure- I	Converyance Lines	Effluent Conveyance Network (ECN) and Recycled water Conveyance Network (RWCN) Layout Plan. Data provided is for guidance only.	
		The indicative layout for ECN & RWCN is provided at link	https://drive.google.com/file/d/18OtEB9iToQg7fADpv17aKPxoOTThuCLw/view?usp=sharing
Annexure- II	Geographical Soil investigation report & AutoCAD file of Layout plan	Drawings and reports and details for Geographical Soil investigation report at park level, conveyance lines with Invert Levels and AutoCAD file of Layout plan of site. Data provided is for guidance only. However Bidder may carry out its own investigation by visiting the site.	
		Geographical Soil investigation report is provided at link:	https://drive.google.com/file/d/1_wfTzyClddsxblijRZyNvMNMqHIYdHHUb/view?usp=sharing
		AutoCAD file of Layout plan of site is provided at link:	https://drive.google.com/file/d/1RhJV-jCWmrPjIFakwbd6uZJPi-bgondv/view?usp=sharing