

## **CORRIGENDUM - I**

### **KAMARAJAR PORT LIMITED**

**E-Tender No: 2023045046**

**E-Tender for “Design, Build 1 MLD (2 X 0.5 MLD) Capacity Sea Water Reverse Osmosis (SWRO) Desalination Plant at Kamarajar Port Limited, Chennai and Operate & Maintain for 7 Years”.**

**1. The Clause no.:20.1 in page no.:26, Section-1, Instruction to Bidders in Vol-I of tender document is amended and to read as under:**

20.1 Bids must be uploaded on the website [www.eprocure.gov.in](http://www.eprocure.gov.in) not later than 08.06.2023 at 15 00 Hrs and the Technical bid will be opened on 09.06.2023 at 15 30 Hrs.

**2. The Clause no.: 1.5 in page no.:5, Notice Inviting Tender in Vol-I of tender document is amended and to read as under:**

1.5 The due date of submission of offers will be 08.06.2023 @ 15 00 hrs, unless otherwise notified. In the event of changes in the schedules, the Kamarajar Port Limited notifies the same through its web site.

**3. The Clause no.: 1.0 in page no.:4, Notice Inviting Tender in Vol-I of tender document is amended and to read as under:**

**Last date & time for online submission of Bid: 08.06.2023 at 15:00Hrs.**

**Date, time and Place of opening of Technical Bid through online: 09.06.2023 at 15:30 Hrs at Port Administrative Building, Kamarajar Port Limited, Vallur Post, Chennai-600120.**

**Deputy General Manager (Civil)  
Kamarajar Port Limited**

### Pre-Bid Meeting Clarifications

**Sub:** E-Tender for “Design, Build 1 MLD (2 X 0.5 MLD) Capacity Sea Water Reverse Osmosis (SWRO) Desalination Plant at Kamarajar Port Limited, Chennai and Operate & Maintain for 7 Years”– Reg.

**Reference:** E-Tender No.:2023045046

Sl.no	Queries Raised against Clause at tender document	Description of the Queries Raised	Clarifications / Amendments
1	Page no.5 Part A in Volume II, Clause no.1.5	<b><u>Soil Investigation survey</u></b> Soil investigation report should be performed by whom contractor or client”	Bidder should conduct the study after awarding the contract as per tender conditions.
2	Page no.18,Section 1,Clause no.6.2 in Volume -I	<b><u>Joint Venture</u></b> Joint venture company data should be disclosed means that should be available for other vendors, so can it remove or not disclosed to everyone else?	It is mandatory to submit all documents mentioned in the tender and failing which, the tender shall not be considered for evaluation.
3	Page no.18,Section 1,Clause no.6.2 in Volume -I	<b><u>Joint Venture</u></b> Can international company can participate as lead partner or not	Yes, and its terms and conditions are applicable as per Indian law.
4	Page no.23, SECTION 6: clause no.6.3, part A in Volume II	It is proposed to draw sea water for this desalination plant from intake structure proposed to be constructed at a water depth of 4m. Kindly share the bathymetry study and soil investigation report if available.	This is tentative figure as per available record from KPL. However the successful bidder to conduct the survey and design the intake accordingly.
5	Page no.43, Table-17, Clause-8.8, Section 8, in Volume -I	Table 17: Chemical Cleaning Pumps: Flow capacity of each pump mentioned as 2 m <sup>3</sup> /hr. Please confirm the capacity of the Chemical Cleaning pump. This is on lower side.	It is DBO Contract and the contractor has to design accordingly suitable for process.
6	1) Part F, Volume-II	<b><u>High Pressure Pumps / Booster pumps:</u></b> Kindly add Danfoss make pump in list of approved major vendors	No Change. Tender condition prevails.

7	Page no.89, Clause-1.1.(I), Section 3, in Volume -I	Obtaining CTE and CTO from applicable statutory authority. The necessary statutory payment to be made by KPL shall be paid and the same will be reimbursed by KPL. We understand the supporting documents will be provided by KPL and only relevant approval to be taken by us. Delay corresponded to documents and approval from PCB may lead to delay in project.	CTO application will be made to the TNPCB by KPL and necessary documents and assistance to be provided by the successful bidder.
8	Page no.1, Clause-1.2, Section 1, Part-A, in Volume -II	KPL has proposed to establish 2 x 0.5 MLD containerized RO desalination plants within the port campus. Can bidder propose shed for UF & RO System instead of containers for efficient maintenance purpose	Containerized RO desalination plant has been envisaged in the tender.
9	Page no.8, Clause-2.3, Section 2, Part-A, in Volume -II	<u>Pre-treatment Processes:</u> Depending on the inlet parameters, pretreatment can be just filtration units and no DAF required. Kindly confirm if the same be considered as per bidder design	No Change. Tender condition prevails.
10	General	<u>Civil Tanks:</u> Can we consider Glass fuse tank (GFT) instead of civil tanks as its space efficient and economical for this size of project.	No Change. Tender condition prevails.
11	General	<u>Bid opening procedure:</u> We strongly suggest KPL not to open bid documents on online portal open to all bidders to see as it exposes the confidential document of the organization. Kindly consider the same.	The tender will be opened through online in the Central Public Procurement Portal.
12.	General	<b><u>Supply for cartridge filter</u></b> We can support with 3M high flow cartridge filters in this project to protect the RO membrane and enhance the membrane life.	It's the DBO Tender and Design of the plant by successful bidder with respect to the technical details subject to approval of PMC/KPL
13	Page no.8 Part A in Volume II, Clause no 2.3	<u>Pretreatment</u> In Tender, the pretreatment strainer micron rating/MOC of the vessel have not been mentioned. Please confirm	DBO contract, design by the EPC contractor.

14	Page no.23 Part A in Volume II, Section 6	<u>Seawater Intake &amp; Intake Piping</u> Inlet pipe length from sea to plant? Intake pump location and specifications.	Contractor has to design as per the site conditions. Refer clause no.6.6,part A in Volume-II
15	Page no.15 Section 1, Clause no.5.4 in Volume-1	<u>Submission of documents</u> Whether integrity pact and Bid security documents has to be submitted in hard copy or not	Integrity pact and Bid security Declaration to be submitted in original to the port office before opening the bids
16	Page no.16,clause no.5.4.17 in volume-I	The MoU is requested to submit again from the previous tender document preparation.	MoU to be submitted as fresh again.
17	1) Page no.18 Section 1, Clause no.6.2 in Volume-1	<u>Joint venture</u> Request to include as follow below “Each JV Partner including the lead partner shall meet not less than 25% of the turnover criteria and all the partners together shall satisfy 100% of the turnover criteria.  One of the partners shall be nominated as Lead Partner for signing Agreement with Kamarajar Port Authority and shall be authorized to incur liabilities and receive instructions for and on behalf of any and all the partners of the joint venture. This authorization shall be evidenced by submitting registered power of attorney signed by all the partners.  The joint venture must satisfy collectively the eligibility criteria of  (i) Average Annual Turnover (ii) Specific work Experience (iii) Employment of key Personnel	No change. Tender condition prevails

		This will help to get Global companies with advanced technologies which can be implemented fulfilling Make in India policy of Government of India Jointly with Indian Company.”	
18	Page no.18 Section 1, Clause no.6.2 in Volume-I	<b><u>Joint Venture</u></b> Clarify the responsibility of leading partner in JV.	Refer Clause no.6.2, Volume I, Section 1, page no.18
19	Page no.18 Section 1, Clause no.6.2 in Volume-I	We again request for elimination of clause no 6 of tender document as "Joint & Several responsibilities" to enable us support many bidders in technology partner role with full responsibility of our scope of work & supply.	No change. Tender condition prevails.
20	Page No. 5, Clause 1.5 in Vol-I	We request for an extension in bid submission till 20-06-2023.	<b>Last date &amp; time for online submission of Bid: 08.06.2023 at 15:00Hrs. Date and time of opening of Technical Bid through online: 09.06.2023 at 15:30 Hrs. – Corrigendum -1 issued.</b>
21	Page no.34, section 7 Clause no.7.8 in Volume-II, Part A	<b><u>Ultra-Filtration System</u></b> Kindly specify whether we can submit the tender without UF system in RO proposal or not	UF system is must for RO proposal. Tender condition prevails.
22	Page no.8, Section 2, Clause No 2.2, Part A, Volume II	The intake source seawater system shall be designed & constructed by the Contractor based on overall desalination plant recovery which shall be not less than 40 %. Kindly provide suitable clarification and explanation for the above.	No change. Tender condition prevails.
23	Page no.17, Section 3, Clause No. 3.4, Part A, Volume II	We understood that to maintain TDS of SWRO permeate water in between 350mg/l to 500mg/l limestone filter suggested in tender. Kindly confirm for this purpose only we are using limestone filter or some other purposes. Kindly clarify	No change. Tender condition prevails.

24	Page no.10, Section 2, Clause No. 2.6, Part A, Volume II	Some where it is mentioned that, the sludge from DAF will directly pumped to RO Reject Tank. And some where it is treated in dewatering equipment's then sent to Final RO Rejects. Kindly clarify DAF sludge must be treated in dewatering equipment or it can be directly taken into RO reject tank	No change. Tender condition prevails.
25	Page no.23, Section 6, Clause No. 6.1, Part A, Volume II	As per our Mass Balance / Water Balance the intake system for 1 MLD output is not reaching more than 3.2MLD as per process requirement. But in tender it is mentioned that 5.14 MLD taken. Kindly clarify.	No change. Tender condition prevails.
26	Page no.24, Section 6, Clause No. 6.3, Part A, Volume II	(i) Site visit during our pre-bid meeting we were not seen any intake point of NCTPS Thermal Power Plant. (ii) Intake structure means intake well has to construct in existing port well are or it shall be construct in land area Please clarify above	This is DBO contract, the successful bidder to design the intake well as per site conditions.
27	Page no.25, Section 6, Clause No. 6.3, Part A, Volume II	There are no details on offshore pipeline is laying below ground or above ground. Please confirm. If below ground please confirm how much depth to consider for pipe laying up to receiving chamber of desalination plant area. Please clarify	This is DBO contract, the successful bidder to design as per site conditions.
28	Page no.28, section 6, Clause no.6.6, Part-A in Volume-II.	Please confirm that the location of sea water pumping station in Offshore or Onshore.	This is DBO contract, the successful bidder to design as per site conditions.
29	Page no.28, section 6, Clause no.6.7, Part-A in Volume-II.	Please confirm where to install this pump onshore or offshore well.	This is DBO contract, the successful bidder to design as per site conditions.

30	Page no.33, Table-8, Clause no.7.6, Section 7, Part-A in Volume-II.	We understood that the capacity of 2.57MLD is feed for both streams i.e 2 x 0.5MLD. Kindly elaborate. Confirm 2.57MLD DAF capacity is for 2 x 0.5MLD or 1 x 0.5MLD	This is DBO contract, the successful bidder to design as per site conditions.
31	Page no.34, Clause no.7.8, Section 7, Part-A in Volume-II.	Since the plant is designed by contractor on DBO basis, we stand guarantee for entire plant required quality of water without UF system. Kindly confirm can we quote without UF plant. Please confirm	No change. Tender condition prevails.
32	Page no.34, Clause no.7.8, Section 7, Part-A in Volume-II.	Flow inlet to 2.5MLD only for single stream of UF or both the stream of UF (2 x 2.5MLD for UF Feed). Please clarify	This is DBO contract, the successful bidder to design as per site conditions.
33	General, Sheet-3, Volume-III	Please confirm all pumps in each stream only working concept. There is no stand by concept. Only Intake pump will be 1W+1SB concept. Please confirm on this.	All pumps shall be W+SB concept as already envisaged in tender.
34	Page no.40, Clause no.8.7, Section 8, Part-A in Volume-II.	In this section the feed flow of SWRO not mentioned. If we calculate as per mass balance the feed capacity of SWRO system is coming around only 1.3MLD only for 0.5MLD output. Please confirm can we take feed capacity of SWRO around 1.3MLD. Kindly guide.	This is DBO contract, the successful bidder to design as per site conditions.
35	Page no. 5, Clause No. 1.5, Part-A, Volume-II	Kindly provide below to assume basis details of Intake & Outfall plan, Soil Analysis report on Desalination Plant location and Bathymetric Report	The successful bidder to conduct the survey and design accordingly.
36	Part-F, Volume-II	We kindly request you to add additionally approved make list as below. And also, they PQ in sea water desalination plant.  a. Cartridge Filters - Kirloskar b. High Pressure Pumps / Booster Pumps - Kirloskar	No Change. Tender condition prevails.

		<p>c. RO Membrane - Toray  d. Sea Water Supply Pumps - Kirloskar  e. Air Blower – Airvak  UF Membrane – Toray &amp; Deerfos</p>	
37	Page no. 124, Section-4, Volume-I	We request at least minimum 20% of advance amount for this project	No Change. Tender condition prevails.
38	Page no. 124, Section-4, Volume-I	We request you to extend the project completion period up to 18 Months since the formalities of gate pass and other works makes very difficult to complete the project.	No Change. Tender condition prevails.
39	General	Only SWRO plant will come under containerized category. And also, please confirm UF plant and Remineralizer plant location. Or we should consider this all-in container plant? Please confirm	Containerized RO desalination plant has been envisaged in the tender.
40	Page no.5 Part A in Volume II, Clause no1.5	<u>Bathymetry data and soil report</u> Bathymetry and Soil investigation are vendor scope or KPL scope. please clarify	Bidder should conduct the study after awarding the contract as per tender conditions.
41	Page no.73, Section 2 Part1, clause no.62 in Volume-1	<u>Force Majeure</u> Extension will be provided for natural disaster?	Tender Condition Prevails.
42	Page no.60, Section 2 Part1, clause no.47 in Volume-1	<b><u>Variation in cost of materials</u></b> How to manage the variation in cost of materials in O&M Period for duration of 7 years	Refer Clause no.47, section 2 part 1 in volume-I of tender document
43	Page no.13 Section 1, Clause no.5.3 in Volume-1	<b><u>Eligibility and Qualification Criteria</u></b> Is it possible to extend the capacity of vendor (financial) for 10 years from 7 years?	No change and Tender condition prevails.
44	Page no.10, Section-2,Part A, Volume-II, Clause no.2.6	<b><u>Reject and other waste discharge arrangements</u></b> In tender is mentioned as sludge from DAF is collected in sludge holding tank and dewater using dewater equipment but specific	The design is in the contractor's / bidder's scope.



		dewater equipment and design details is not mentioned. Please share the details.	
45	Page no.33,Part A, Volume-II, Clause no.7.7	<b><u>Dual media filter</u></b> Quantity of dual media filter is not given. We can consider 2x50% based on plant capacity. Please confirm.	The design is in the contractor's / bidder's scope. The potable water quality should be achieved as per the standards.
46	Page no.34,Section-7, Part A, Volume-II, Clause no.7.8	<b><u>Ultrafiltration UF</u></b> In tender document recovery and flux are mentioned but not specified about MOC and type of operation whether it is in to out or out to in. Please confirm.	This is DBO contract and the design is in bidder's scope.
47	Page no.34,Section-7, Part A, Volume-II, Clause no.7.8	Pre filter for Ultra filtration system specification is not given in tender. Can we go with our standard specification like 150 micron rating with SS MOC. Please confirm.	This is DBO contract and the design is in bidder's scope.
48	Page no.30,Part A, Volume-II, Clause no.7.3,7.4	<b><u>Coagulation/ Flocculation</u></b> In tender general details only given for coagulation and flocculation and not mentioned about dosing tank and dosing pump, MOC and quantity. Can we consider Dosing pump MOC is pp, Tank MOC is HDPE/FRP. Quantity of dosing pump (1W+1S), Tank- 1W. Please confirm.	This tender is coupled with 7 years O & M and end of the period should be in good condition to hand over to the employer. Based on the O & M consideration, the selection of equipment to be designed with the approval of PMC/KPL
49	Volume III	<b><u>Process Flow Diagram</u></b> In PFD for UF system separate pump is shown for CEB and backwash but in technical specification details are not available. Can we go with UF vendor recommendation. Please confirm.	Yes. UF Vendor recommendation is accepted.
50		In PFD separate CIP system is shown for UF and RO but in technical specification CIP system given for RO System alone. Please confirm.	Yes.

51	General	In tender specification quantity of UF system, RO system is mentioned as 2 nos. if we are go with two separate working stream then have the dosing system specs have to be elaborated. Please confirm. Please confirm quantity and MOC of dosing system also.	Yes. Tender condition prevails.
52	Page no.45,Part A, Volume-II, Clause no.9.1.2	<b><u>Pump,Dosing Pump and Dosing Tank quantity.</u></b> In tender carbon dioxide dosage details are given but lime stone filter design details not available.Please share the same.	Design is in the contractor's / bidder's scope.
53	General	In tender it is mentioned as contractor undertaking O&M responsibility of the containerized based 2 x 0.5 MLD desalination plant. Please confirm whether it is a containerized system or not?	Containerized RO desalination plant has been envisaged in the tender.
54	General	<b><u>Man power</u></b> In tender man power details is not given. Please provide the same.	Refer clause no.9.3,Section-2,Part 1, and clause no.5.4,Section-8,Part B in Volume-I
55	Clause no.47,section 2 part 1 in volume-I	<b><u>price escalation</u></b> In tender price escalation for each year is not given. Please share the details.	Refer the escalation clause of the tender conditions.
56	Part C-Electrical	<b><u>Incomer 1 &amp; 2 (PCC to MCC)</u></b> Please confirm the scope of Cable & Cable tray & Approximate Length for 1R x 3.5C x 70Sqmm	Cable is under contractor scope of works and cable tray is FRP type only for marine environment.
57	Part C-Electrical	<b><u>Existing PCC Panel room</u></b> Please share the available space for NEW MCC/APFCR/PDB Panel.	Enough space is available at MCC building.
58	Part C-Electrical	<b><u>Lightening arresstor</u></b> Type of Lightening arrestors & Mounting location	At the roof top of the building and lay the earth flat accordingly as per structural design of the civil buildings.
59	PART D-Instrumentation & automation,	<b><u>P&amp;ID</u></b>	This is DBO contract. Contract conditions prevails.

		P&ID required for the preparation of tentative I/O list	
60	PART D-Instrumentation & automation,	<b><u>PLC / SCADA room location</u></b> Existing room or New room ( AC required for PLC/Scada)	New room at admin building and temperature control system is must for operating the control system by round the clock.
61	General	Please confirm scope of CRZ clearance.	Already obtained by the employer /KPL.
62	Page No. 5, Clause 1.5 in Vol-I	<b><u>Bid Submission Date</u></b> Request you to extend the submission date by 4 weeks.	<b>Last date &amp; time for online submission of Bid: 08.06.2023 at 15:00Hrs. Date and time of opening of Technical Bid through online: 09.06.2023 at 15:30 Hrs. – Corrigendum -1 issued.</b>
63	Page No. 14, Section 1, Clause 5.3(ii) in Volume-1	<b><u>Eligibility and qualification criteria</u></b> For similar project experience, if bidder (JV) can submit the ongoing project experience with partial completion certificates is acceptable from competent Govt. authority. Kindly confirm	No change, Tender Condition Prevails
64	Page no.13 Section 1, Clause no.5.3 in Volume-1	<b><u>Eligibility and qualification criteria</u></b> If bidder with JV/Consortium, all the members in the JV should have the similar previous experience.	The applicant (Either single Bidder or JV/Consortium members collectively) shall meet minimum criteria as per clause no.6.2,volume-I
65	Page no.14 Section 1, Clause no.5.3 of Volume-1	<b><u>Similar Experience</u></b> If previous similar experience must have the design scope.	As per Note on “Similar Work”
66	Page no.14 Section 1, Clause no.5.3 of Volume-1	<b><u>Eligibility and qualification criteria</u></b> If bidder previously completed project has water and sewer scope, then the total project value has been considered for eligibility criteria or the project value to be spitted for water specifically	No Change in “similar work”.
67	5) Page no.18 Section 1, Clause no.6.2 in Volume-I	<b><u>Joint Venture</u></b>	Refer clause no.6.2,section 1 in volume-I

		If JV/Consortium, other than lead holder, rest 25% holder have to fulfill eligibility criteria	
68	General	Please specify distance of sea water intake to plant location	As per site conditions and it is about 500Mtr.
69	Page no.28 Clause no.6.8, Section 6, Part A in Volume-II	Please specify Prechlorination to be made in intake system to avoid algae bloom etc.	Yes, Refer Clause no.6.8, Section 6, Part A in Volume-II
70	Page no.32, Clause no.7.6, Part A, Section 7, in Volume-II	Is any oil content is vicinity of sea water intake to the plant for DAF design criteria	Content of oils and greases (O&G) in the feed water should be considered while designing DAF, Refer Clause no.7.6,Part A, Section 7, in Volume-II
71	Page no.55, Section 12, Part A, in volume -II	Please specify reject discharge	Refer Page no.55, Section 12,Part A, in volume -II
72	General	Please specify for loading and unloading equipment like chain hoist etc. will be included in Mechanical BOQ	Contractor is responsible for the entire design scope.
73	Page no.183, Section 8 PART B, Clause no.3.0 in Volume-1	Please specify commencement of O&M period	After successful completion of trial run, commissioning and demonstration of performance guarantee and Reliability test.
74	Page 60, Clause 47, section 2 part 1 in volume-I	During O&M period escalation matrix for O&M rates shall include manpower, chemicals and consumables	Refer tender document (Clause 47,section 2 part 1 in volume-I)
75	Page no.11 Section 1, Clause no.1.1 sub clause 11 in Volume-1	Please clarify obtaining CTO will be responsibility of whom	CTE already obtained by the employer/KPL and CTO will also to be obtained by KPL and necessary support/ assistance to be extended by the bidder.
76	Page no.17, Clause no.3.5 Section 3, Part A in Volume-1	Please specify accepted boron limit in treated desalination water	Maximum acceptable concentration (MAC) of 1.0 mg/L with acceptable pH value as per tender conditions.
77	Page No 45 Clause 9.1, Section 9, Part A in Volume-1	Please specify whether hydrated lime could be used for remineralization	The contractor may recommend a post-treatment system of their preference and

			provide a brief analysis of the cost and operational advantages and not compromise the quality of water.
78	Page No 45 Section 9, Clause 9.1.2 in Volume-1	For CO <sub>2</sub> storage any consent is required	Contractor scope
79	Page no.120 Section 3, Clause no.29 in Volume-1	Please provide topographical survey/ geotechnical/ bathymetric survey report of existing site/ proposed site area	The contractor shall at his expenses carry out all the necessary surveys
80	Page no.195 Section 8, Clause no.7.0 in Volume-1	Contingency amount can be separately added in the contract price for any Force majeure activities may arise in future.	As per tender conditions only
81	Page No. 5, Clause 1.5, Section-1 in Volume-1	<b><u>Bid Submission date</u></b> Kindly extend the tender submission date by at least 2 weeks	<b>Last date &amp; time for online submission of Bid: 08.06.2023 at 15:00Hrs. Date and time of opening of Technical Bid through online: 09.06.2023 at 15:30 Hrs. – Corrigendum -1 issued.</b>
82	Page-28, Clause 6.2, Section -6, Part- A, Volume-II.	Chlorine mentioned is gas chlorination or Hypo dosing or electro chlorination	This is DBO contract, the successful bidder to design as per site conditions.
83	Page-23, Section -6, Part- A, Volume-II.	Can we Propose taking water from bore hole in place of sea water intake.	No Change. Tender condition prevails.
84	Page-23, Section -6.1, Part- A, Volume-II.	Is pumping station / intake well is required to draw sea water from Sea and its Location / coordinates	This is DBO contract, the successful bidder to design as per site conditions.
85	General	Kindly Provide HFD of required equipment, although tentative to make proper budgeting from our side	This is DBO contract, the successful bidder to design as per site conditions.
86	General	Bore Hole Report for plant Location	Bidder should conduct the study after awarding the contract as per tender conditions.
87	Page-6, Section -1.5-xiv, Part- A, Volume-II.	Analysis to be carried out enabling us to budget Lab. Equipment accordingly	Bidder should conduct the study after awarding the contract as per tender conditions.
88	Page-33, Clause-7.7, Section -7, Part- A, Volume-II.	No. of DMF to be provided either One or two ( 50% each )	This is DBO contract, the successful bidder to design as per site conditions.

89	General	Working Time at site during construction	Normal working hours shall be 9:45 am to 5.45pm.
90	Page-97, Clause-13.3.2, Section -3, Volume-I.	Gate pass Procedure for Manpower and Materials	A link for the procedure has been provided in Page-97, Clause-13.3.2, Section -3, Volume-I
91	Page no.13 Section 1, Clause no.5.3 (ii) in Volume-I	<b><u>Eligibility and Qualification Criteria</u></b> Proposed as “Experience of having successfully completed similar works during last 12 years ending last day of month previous to the one in which tender applications are invited should be either of the following”	No change. Tender condition prevails
92	Page no.14 Section 1, Clause no.5.3 (ii) in Volume-I	<b><u>Similar works</u></b> Proposed to change the similar work as “Design, Construction, Erection, Installation, Testing and Commissioning of Sea water desalination Plant in Municipal (or) Water treatment plant with RO process in any Industrial Plant. The value of similar works completed by the bidder will be brought to current cost level by enhancing the actual value of work with the multiplication factor as detailed below for assessing the eligibility of the bidder under experience”	No change. Tender condition prevails
93	Page no.60, Clause no.13.1, Sub clause 13.1.3 , Section 13, Part-A in Vol-II	Please clarify whether RO and UF modules will be placed in the building or container	Containerized RO desalination plant has been envisaged in the tender.
94	Page no.54, Clause no.11.1,Section 11, in Vol-II Part-A	Inter connection of portable water storage - existing storage tank two product water storage tanks shall be piping with pump system or bye pass line to existing product water storage tank.	Pumping system
95	General	Please provide the plot plan with indicative location of intake head falls and piping routing also out falls routing, existing product water storage tank with coordinates. Also request you	As per tender document and site conditions

		to provide sea Bathymetry report for better understanding	
96	Page no.55 Section 19 Part-C, in Volume-II	The reference clause mentioned fire fighting pump, fire fighting net works including fire monitors and double head hydrants to be considered but other clause (page no 455 clause 3.0 electrical indicative lists of equipments) mentioned only required fire detection and alarm systems. Please clarify scope which system to be considered also inform us the design standard of FFS shall be NFPA or TAC	Design standards as per clause 13.5 with equipment furnishment as per the section clause 19.0 in Part-C
97	Page no.6, clause 1.5,(xii) Section 1,part A in Volume-II	Please provide detailed specification for air conditioning and ventilation system along with the location, building & type of HVAC system	Laboratory, Control room shall be equipped with air conditioning and under the contractor scope
98	Page no.55, clause 12.2 , Section 12, Part-A in Volume-II	Diffuser- required marine spread to control precision operation a4 point mooring barge with heavy lift crane and subsea diving intervention facilities. Please clarify the scope whether desalination package vendor to take care this scope	Its Under the scope of contractor
99	Page no.51, clause 21.6,Part D,in Volume-II	We would like inform that as per our standard practice, UPS back up shall be provided 1 hour only instead of 3 hours	No change, Tender Condition Prevails
100	Page no.51,clause 2.11,Part D,in Volume-II	We would like to inform that all online analyzer will be installed in outer area, hence it is not applicable for the Air conditioned room	If online analyser shall be accepted and table mounted type shall be in the laboratory and to be temperature control room is preferred.
101	Page no.46, Clause no.14,Section 2, in Volume-I	The referred soil investigation report is not provided in the tender. Please provide the same	The successful bidder has to do the soil test for all the proposed major units and based on the soil reports.
102	Page no.5, Section 1, Clause no.1.5 in Volume-II	We request any demolition if any required for this project	No Civil structure. Its green field area.

103	Page no.61,Clause no.13.3,part A, in Volume-II	We request to mention the natural ground level and finished formation level for the project.	The natural Ground Level to be surveyed by the successful bidder and the finished formation level shall +5.00 M CD and the building floor level shall 600mm above the finished formation level.
104	Page no.6, Clause no.1.5,part A in Vol-II	We request to mention the nearest drain point of disposal in the layout.	As per site conditions
105	Page no.120, Section 3, Clause no.29. in Vol-I	Please provide the mentioned topographic survey drawings.	The successful bidder has to do the survey.
106	General	Plant maintenance workshop, equipment and materials storage area and spare storage facilities, these facilities are not indicated in the provided layout. We request to mention the areas required for these facilities.	Contractor is responsible for the erection of these facilities for the execution of the project as per design requirements
107	General	Administrator building, training centre & staff quarters. In layout admin building cum lab is mentioned as container type. Please Confirm.	Administrative building and cum lab is Civil structure .cRefer Section 13,PART-A, Volume -II. Apart from this wherever is required as per design of the bidder.
108	General	We request to mention the areas required for training centers and staff quarters.	As per the site conditions
109	Page no.61, Section 13, Clause no.13.2 Part A in Vol-II	The road width mentioned in the layout is 4.0m. Please clarify.	The road width shall be atleast 5M
110	Page no.120, Section 3, Clause no.29. in Vol-I	We request to provide the contour survey drawings for the proposed plant areas.	The successful bidder has to do the survey.
111	General	There is no design basis provided for the civil works. So we request the EMPLOYER to kindly provide the same	Civil work design is the scope of contractor based on the site visit conditions & observations



112	General	There is no civil finishing schedule and material specification provided in the tender. So we request the EMPLOYER to kindly provide the same	It is under contractor scope
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