

COUNCIL FOR LEATHER EXPORTS

Pre-Bid Meeting held on 21st February 2017 at CLE, Chennai

- Name of Work** : Mechanical and Electrical works for Up-gradation of existing CETP and Creation of additional capacity of 1 MLD membrane system in RANITEC CETP, Ranipet, Vellore District, Tamilnadu
- Tender Notice No** : CLE-HO/ASIDE/RANITEC CETP-M&E/2017 dated 10-02-2017
- Implementing Agency** : Council for Leather Exports (CLE), Chennai
- Project Management Consultant** : Central Leather Research Institute (CSIR- CLRI), Chennai

1. M/s. Arvind Envsol Limited, Ahmedabad

S.No	Clause No.	Description	Query	Reply by CLE/CLRI
1	Volume – 2 – Technical Specifications, Schedule – A, Sr No. 1.0 Page No.96. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.1	Mechanical Bar Screen : 500 M3/Hr 8 mm Spacing, (to suit existing channel)	Pls. provide the details / size (dimensions) of Bar Screen Chamber to fit the bar screen.	Please visit the site and take the measurements of the existing RCC channel.

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2	Volume – 2 – Technical Specifications, Schedule – A, Sr No. 1.0 Page No.96. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.1.	Mechanical Bar Screen : 500 M3/Hr 8 mm Spacing, (to suit existing channel)	Request you to Please provide invert level of inlet at the mechanical screen chamber.	Please visit the site and take the measurement.
3	Volume – 2, Technical Specifications, Schedule – A, Sr No. 1.0 Page No.96. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.1	Mechanical Bar Screen : 500 m ³ /hr 8 mm Spacing, (to suit existing channel)	Tender is not cleared about the scope of dirt disposal i.e belt conveyor, trolley, Etc. Please confirm.	The screening solids collection container shall be provided by the bidder. The disposal will be done by the CETP.
4	Volume – 2 – Technical Specifications, Schedule – A, Sr No. 1.4 Page No.103, 104, 105, 106, 107. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.4	Centrifuges : Pusher Centrifuge – 1000 kg/hr of Mixed salt with electric Motors, Hydraulic system, control panel, Piping, pipe fitting, compensators, equipment for handling product after discharge & other construction aids complete.	Request you please elaborate the piping scope of feed to centrifuge and disposal of Mother liquor from centrifuge. If it is in vendor scope please give us piping distance (in Meter) with required Pipe dia.	The piping and fittings requirement have to be considered by the bidder based on site visit. The mother liquor outlet pipeline shall be connected to the mother liquor collection tank adjacent to the centrifuge.
5	Volume – 2, Technical Specifications, Schedule – A, Sr No. 1.6 Page No.109. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.6	Screw Pump with filter press.	We understand that only screw pump is to be supplied by vendor. Other accessories i.e.Piping from screw pump to filter press and electrical connection to be done by client. Please confirm.	The bidders have to supply the screw pump only. The piping and electrical works will be done by the Ranitec CETP.

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6	Volume – 2 – Technical Specifications, Schedule – A, Sr No. 1.9 Page No.114	Ultra filtration System : Design details	Request you to Please provide the inlet parameter like, TOC, BOD, COD, Hardness and alkalinity to understand the scaling / fouling of UF Membrane.	BOD: < 30 ppm COD: < 400 ppm Hardness: 700 ppm Alkalinity: 1200 ppm TOC: <160 ppm
7	Volume – 2, Technical Specifications, Schedule – A, Sr No. 1.9 Page No.116, 118. Volume – 3, Bill of Quantities, Schedule – A, Item No. A.1.9	Ultra filtration System.	Request you to Please provide the Plant layout to estimate piping length from UF feed Pump to UF Skid and UF skid to UF permeate Tank.	The drawing is available at Ranitec CETP and the same may be obtained from Ranitec CETP during site visit, if required.
8	Volume – 2, Technical Specifications, Schedule – A, Sr No. 1.10 Page No.127.	RO System : Permeate water quality	Request you to please provide water temperature to be considered at permeate water quality.	Ambient water temperature.
9	Annexure – 5	Electrical SLD drawing	Five different SLD are provided in the tender document. Kindly advice power TAP OFF point for each panel.	Panels mentioned in the SLD diagram shall be considered in the scope of bidder. The electrical output shall be considered from the MCC to each equipment. Power supply tapping required for only PMCC. Existing power supply to be used for all other MCCs.
10	Volume – 2 – Technical Specifications, Schedule – A,	Electrical Control Panel	The SLD for MCC 1 (Fig 1) does not indicate power supply	Power supply to these individual units will be supplied by Ranitec

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	Sr No. 1 Page No. 96. Volume – 3, Bill of Quantities, Schedule – A		provision for loose supply items like Mechanical bar screen, Rotary drum Screen, Submersible Mixers, Centrifuge, High Pressure water Jet cleaning system, screw Pump for filter press, Ozone generator, etc. We understand that individual local control panel shall be provided at each of these units. Power to these individual units panel will be supplied by client. Please confirm.	CETP
11	Volume – 3, Bill of Quantities, Schedule – A, A1.11 Page No, 202 Annexure – 5 Electrical SLDdrawing	Electrical Works	We understand that MCC-II, MCC-III, Blower panel, PT membrane system MCC will get power supply from PMCC (MCC 1). However in SLD it is not clearly shown the details of Tapoff power for these panels. Kindly clarify.	SLD diagram is indicative only. The bidder has to consider as per the design requirements. Power supply already exists for these MCCs
12	Volume – 3, Bill of Quantities, Schedule – A, A1.11 Page No, 202	Electrical Works	We understand that electrical work of schedule A, B & C is completely included in schedule A only. Please confirm.	Electrical requirement for Schedule A & C is included in the Schedule - A. Schedule - B is independent except earthing which is included in Schedule - A.
13	General	General Arrangement Layout / Piping Layout / Cable layout	Request you to Please provide the General Arrangement Layout /	The proposed 1 MLD UF and RO system is to be installed in the

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			Piping Layout / Cable layout for proposed 1 MLD Plant. So that we can understand Piping and electrical terminal scope.	existing RO building of the CETP. Tenderer may collect further details during the site visit to understand the existing piping and electricals details and also to understand the bidder's scope of piping and electrical works under this project.
14	General	Process scheme	Request you to Please provide the process flow diagram to understand the Process flow of system.	The process diagram of existing system may be obtained from the CETP during the site visit.
15	5.2.3 For Schedule C	Similar nature of work experience	We request you to allow Pre-Qualification for Schedule C same as Schedule A. The Bidder could join hand with Plate and Tube Membrane / Technology supplier. Please confirm.	<p><u>Revised Eligibility criteria for Schedule C shall be</u></p> <p>(i) Experience in Supply, installation, testing and commissioning of Plate and Tube Type RO System of 600 m³/day capacity for industrial wastewater (CETP/ETP).</p> <p>Or</p> <p>(ii) Experience in Supply, installation, testing and commissioning of UF and RO system for industrial wastewater with 1000 m³/day capacity for CETP/ETP. However, the bidder should provide the joint venture agreement/ dealership certificate for Plate and Tube Membrane Technology from the manufacturer.</p>

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16	Date of submission	Due to very short period we could not be able to visit the site before Pre Bid meeting so we request you to consider one more list of queries after site visit for the said project. Based on that kindly consider our request for the extension of date of submission minimum 15 days from 01/03/2017.		Extension of date for submission is not permitted.

2. M/s. Murugappa Organo Water Solutions Private Limited, Chennai

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	General ITB			
1	Page 3 of 253	All other necessary approval of any manner including those of compliance to statutory legislations required by the successful bidder for smooth operation and proper execution of work shall be the responsibility of the successful bidder.	If there any special approval required for from the electricity board, Safety department likewise any other department needed to provide clearance kindly clarify.	Approval from CEIG, EB and other relevant authority is required.
2	1.8 EMD - page 8 of 253	EMD to be submitted in form of DD from Nationalized Bank issued in favour of council of leather exports payable at Chennai	Can we submit Bank guarantee for the same amount valid for 3 months.	Bank guarantee is not accepted. The bidder has to submit Demand Draft as per the tender.
3	1.8 Period of completion - page 8 of 253	Schedule A: 6 Months	Extension of schedule 6 Months required to be considered for supply from date of approval of drawings and 1 month for erection & commissioning. If there any delay in the work due to natural disasters needed to be considered.	Extension of project period is not permitted. However the entire work shall be completed within 6 months from the date of approval of design and drawings. The successful bidder should submit the design and drawing within one month from the date of issue of work order by CLE. Force majeure has already provided in page no.57, Volume-1

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4	1.10 LD clause Page 09 of 253	Penalty of delay shall be levied @ 1.5% of contract price per calendar per month subject to ceiling of 10% of contract value	We request to consider the ceiling to 5% of contract value.	Not accepted.
5	2.8 Page 10 of 253	Obtaining all approvals from competent authority, if any for installation of all mechanical and electrical works complete in this project in coordination with Ranitech CETP. The cost towards obtaining such approvals and any other requirements shall be borne by the contractor	During the initial stage the applicable charges are not known and payment shall be made at actual applicable cost.	Prevailing fees can be checked with concern authorities and it shall be under the scope of bidder.
6	2.9 Page 10 of 253	Necessary work permit shall be obtained from the beneficiary for excavation works and other works within the Ranitech CETP	Work permit needed to get from the Ranitech only or from whom needed to be received.	The work permit shall be obtained from GM, Ranitech CETP.
7	11.1 Page 21 of 253	The tenderer is particularly requested to check all dimensions, figures and the technical data shown on the drawings and in the technical schedules and obtain his own information on all matters which may in any affect his tender price as no claim for extra compensation for any alleged ignorance in respect thereof shall be entertained.	Drawings mentioned in the tender not received along with the tender.	It is relevant for any drawings obtained/ received from CETP during the site visit.

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8	14.1 page 22 of 253	Before the deadline for submission of Tenders, CLE/PMC may modify the Tender documents by issuing addenda if any	Accordingly submission date should be modified.	Extension of submission date is not permitted.
9	44 page 33 of 253	Contractor should take site insurance towards, theft, breakage, accidents etc. until the tenure of the contract.	Necessary storage space or storage room needed to be arranged at the site.	Open space is available at Ranitec CETP. However, the bidder is responsible against theft, breakage, accidents etc. until the tenure of the contract as per tender conditions.
Part - I Volume - 2 Schedule A				
10	1.1 Page 96 of 253	Mechanical bar screen	Existing bar screen channel dimensions required to suit the mechanical bar screen.	Please visit the site and take the measurements required.
11	1.2 page 100 of 253	Rotary screen	Water required for the screen washing provision will be in supplier scope or Ranitec scope. Applicable termination point for the pipe to supply water required for the screen.	Incoming water supply alone will be provided by Ranitec CETP.
12	1.4 Page 103 of 253	Centrifuge	Expected salts concentration with individual ions required to select the pusher centrifuge	For details about salt concentration please refer to page no 107 volume -2.
13	1.8 page 111 of 253	Ozone Generator & Recirculation Pump	Clarifications required for no. of ozonators whether 1 No or 10 Nos. Liquid oxygen	The total capacity of Ozone generator shall be 15 kg/hr.

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			<p>flow rate mentioned as 120 LPH and not matching with ozone concentration and capacity of the ozone generator. Oxygen flow given in LPM or Nm³/hr or SM³/hr but controversy are there. Number of electrode is given as 12 and high frequency board as 4 which will differ depends on manufacturer design. Ozonator applied after tertiary treatment or where it is applicable. Instruments required for ozonator such as to find out residual ozone to disperse from the system is not shown in the system.</p>	<p>Required liquid oxygen will be provided by the Ranitec CETP for ozone generator. The bidder has to provide the design details of the ozone generator including the liquid oxygen flow rate.</p> <p>Number of electrodes given in the tender is indicative only.</p> <p>The ozonation system will be installed after tertiary treatment.</p> <p>The necessary vent ozone destructor/ residual ozone disperser have to be considered in the scope of work with online measurement.</p> <p><u>Preferred Make:</u> Guolin/Xylem/DAW</p>
14	1.8 (8) page 103 of 253	Construction of RCC building size 15 m x 10 x 4.5m	RCC room to keep ozonator inside the room or anyother application kindly specify the requirement. Etc mentioned in the tender needs clarifications.	RCC roof building for Ozonation system is to be included in the scope of work of bidder.
15	1.9 page 115 of 253	UF Membrane Filtration Facility	UF Membrane system under the RCC roof. Size of the room required to check the suitability of placing the UF system inside the room.	Please visit the site and take the dimensions/ size of the RCC building.
16	1.10 page 122 of 253	RO system - Tenderer shall submit design, drawings with P&I, system	Whether the P&ID shall be tentative and detailed P&ID shall be submitted during	The tentative P&ID is acceptable along with catalogue of the

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		projection calculations from membrane manufacturer and layout with the technical offer along with catalog of all equipment.	the detailed engineering after award of contract. Catalogue of the pumps and the components for the RO system alone shall be submitted at this stage. Kindly confirm.	pumps, mechanical and monitoring equipment and the components for the UF and RO systems shall be submitted in technical bid at this stage. However the tenderer shall submit the detailed P&ID along with data sheets of all equipments during detailed engineering.
17	1.10 page 129 of 253	RO High Pressure Pump - 50 m ³ /hr @ 45 bar	Tender specified for 50 m ³ /hr @ 45 bar. As per the projection required pressure 40 bar and whether same shall be considered in the system.	In this case, please adhere to tender specifications. RO Projection shall be submitted along with technical bid with all details.
18	1.10 (Sl no. 8 & 9) page 130 of 253	RO CIP Tank and Pump - Existing	Existing CIP pump and tank specifications required to check the suitability of the system.	Please visit the site and check the suitability.
19	1.10 (Sl no. 10) page 130 of 253	Energy recovery turbine - Specified Make: Pump Engineering Inc / Xylem	Energy recovery system designed by energy recovery.	Design has to be provided by the bidder.
20	page 156 of 253	Cable Tray, accessories and tray support - Aluminium/ FRP	Cable tray mentioned as aluminum. To protect the tray from corrosion whether MOC shall be GI.	Aluminum with powder coated or FRP cable tray shall be considered.
21	page 167 of 253	Diesel Genset - 1010 KVA DG	Specified DG is apart for the DG requirement in Schedule B or it belongs to Schedule A.	Specified DG set belongs to Schedule B. (No other DG set is required).

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22	Page 217 of 253	Annexure - 1B	VFD make mentioned as Danfoss/ ABB/ CG but in the page 120 make mentioned as Danfoss/ABB/ Mitsubishi. Whether CG shall be considered in the make list.	The CG make can also be considered.

3. M/s. ROCHEM Separation Systems, Mumbai

S. No.	Query	Page Ref No.	Reply by CLE/CLRI
1.	We understand climatic condition mentioned as 20 – 40 degree Celsius but the feed water for RO system should be maintained at 30 – 40 degree celsius.	Page No.11 Pts No.4.2	The feed water temperature for RO system is normally in the range of 25 to 40 degree Celsius.
2.	Schedule C mentioned as Design, Detailed Engineering, Supply, Installation, Testing, commissioning of High Pressure Plate and tube RO & NF for 600 m3/day on turnkey lumpsum basis. Kindly mention the scope of civil work.	Page No. 7 Schedule C	No civil work is required for Schedule C.
3.	We understand from the mentioned paragraph cleaning system to be provided with RO and cleaning chemicals only for erection and commissioning.	Page No. 182 Ist Para	The chemicals has to be provided till the completion of the performance of the entire system
4.	TDS mentioned as >50000ppm. 1. Kindly confirm range of Feed TDS. 2. At 50000 ppm Feed TDS, recovery will be 30%.	Page No. 182 Table	1. Feed TDS for HP RO will be in the range of 50,000 to 60000 ppm. 2. The recovery rate shall be 40% at feed TDS concentration of 50,000 ppm and shall be 30% when the feed TDS is around 60000 ppm
5.	Temperature mentioned as 25 – 40 degree Celsius. We require feed water temperature to be maintained between 30 to 40 degree Celsius.	Page No. 182 Table	The feed water temperature for RO system is normally in the range of 25 to 40 degree Celsius.
6.	Recovery mentioned as 30 – 40 %. At 50000 ppm Feed TDS, recovery will be 30%.	Page No. 182 Table	The recovery rate shall be 40% at feed TDS concentration of 50,000 ppm and shall be 30% when the feed TDS is around 60000 ppm

S. No.	Query	Page Ref No.	Reply by CLE/CLRI
7.	Flow of HP reject mentioned as 360 – 420 m ³ /day in the table. PT(HP)-RO reject Flow will be considered as 420 m ³ /day @ 30% recovery.	Page No. 182 Table	Reject Flow shall be considered as 360 m ³ /day at 40% recovery with feed TDS of around 50000 ppm and 420 m ³ /day at 30% recovery with feed TDS of around 60000 ppm.
8.	TDS of PT (HP)-RO Reject mentioned as > 80000 ppm. Reject TDS will be considered as 70600 ppm @ 30% recovery.	Page No. 182 Table	Recovery rate shall be considered based on the Reject TDS of PT (HP)-RO of more than 80000 ppm.
9.	Major components: Flocculator mechanism in SS316L suitable for Feed tank. We have not found any further details with respect to above mentioned Flocculator. Kindly provide specific details and clear the scope matrix	Page No. 182 Pts. 1.7	The Flocculator mechanism is proposed in the feed tank for pH correction of the feed to HP RO system. In addition, all chemical preparation tanks in dosing system shall be provided with mixing/ agitator arrangement.
10.	HP Pump capacity will be 30 m ³ /hr. (i.e. 7.5 m ³ /hr for each pump)	Page No. 185	Design calculation has to be provided by the bidder in technical bid.
11.	As PT(HP)-RO is followed by NF system, ERI pump is not applicable, hence will not be considered.	Page No. 186	Energy recovery device has to be considered in the design.
12.	Intermediate Tank for PT(HP)-RO system will be 10 KL tank (by client)	Page No. 188	Intermediate tank for 10 KL shall be provided by the bidder
13.	We will consider LDPE intermediate tank.	Page No. 188	HDPE intermediate tank shall be provided.
14.	Degasser MOC mentioned as RCC. Kindly let us know the scope of work.	Page No. 189	Degasser tower shall be provided. Necessary tank will be provided by Ranitec.
15.	Temperature for PT-NF will be maintained between 30 – 40	Page No. 191	The feed water temperature for RO system is normally

S. No.	Query	Page Ref No.	Reply by CLE/CLRI
	degree Celsius.		in the range of 25 to 40 degree Celsius.
16.	Reject TDS for mentioned as 70000 ppm Reject TDS will be 70000 – 80000 ppm for PT-NF system	Page No. 191	Feed TDS for NF is in the range of 70000 to 80000 ppm.
17.	Booster Pump will be considered for PT-NF with following specs: Make: Dickow / Grundfos Type: centrifugal pump, Material: SS316 Pump Pressure: 8.0 suitable		Booster pump MOC shall be considered as SS duplex only. Design calculation has to be provided by the bidder in technical bid.

4. M/s. Olympia Eco Solutions Pvt. Ltd. Chennai

S.No	Query	Reply by CLE/CLRI
1	<p>As per the tender document, to met the financial criteria, the average Turnover for the last three Financial years should be 8.7 crore which is 100% of the tender value. Whereas in other tenders of CLE Vishtec, Madhavaram & Vishtan the maximum of 30% of the tender value is fixed as BQR criteria. We would request you to review the BQR criteria for financial Turn over on the same lines as applicable in case of other tenders released by CLE. (30% of the tender value)</p>	<p>In this tender document as per CPWD works manual, Average annual financial turnover is mentioned as 100% of the estimated cost during the last 3 consecutive financial years (OM No. DG/MAN/306 dt. 16.05.2014).</p> <p>With reference to the modified provision of CPWD works manual, the average annual financial turnover has been revised as 50% of the estimated cost (OM. No. DG/MAN/332 dt.10.02.2016).</p> <p>Hence, the eligibility criteria for tenderer based on the average annual financial turnover is being revised as <u>50% of the estimated cost during the immediate last 3 consecutive financial years for this tender also.</u></p>