

Tender Ref: BL/AS/MAN/CP7ETP/LT/202122/0009 Dated : 08.07.2021
Due date: 27.07.2021

Sub: Inviting online Expression of Interest (EOI) followed by online price bids for Low TDS Industrial Waste Water Treatment Plant at Balmer Lawrie & Co. Ltd, Manali – Reg...

1. INTRODUCTION

Balmer Lawrie & Co Ltd. [herein after referred as BL] is a multiple product, multi location and multi technology conglomerate. The company invites 'e'-bids for **Low TDS Industrial Waste Water Treatment Plant** for their Chennai factory premises from approved and experienced Original Equipment Manufacturers/authorized dealers of OE manufacturers with sound infrastructural, technical and financial capabilities.

2. TENDER QUANTITY - 1 set.

3. TECHNICAL SCOPE AND SPECIFIC CONDITIONS

Description : Low TDS Waste Water Treatment Plant
Capacity : 25 KLD

Indicative specification requirement: Refer Annexure-1 & Indicative Schematic Diagram enclosed.

Scope of supply :(1) Bar Screen, Oil Skimmer, tanks, Mixers, Air Blowers, Diffusers, MBBR Media, necessary pumps, RO system, Cleaning System, Chemical Dosing Systems, Pressure Sand Filter, Activated Carbon Filter, instruments, connecting pipes, valves, electrical requirements and other accessories /equipment as required for completing the project.

(2) Scope includes installation and commissioning also.

(3) Necessary civil work will be carried out by BL. Lay out, foundation and other civil structure general drawings required for civil work necessary for the system shall be provided by vendor within 10 days from the date of LOI/PO;

Note: The specification details given are indicative only. **Suppliers can propose their own design suitable to our requirement in compliance with Tamilnadu Pollution Control Board.** However, package system with MS tanks will not be accepted. **Suppliers are requested to submit their offers only after inspecting the site to understand the existing system and the requirement.**

4. PREQUALIFICATION CRITERIA FOR PARTIES SUBMITTING OFFERS:

Firms submitting offers shall be well experienced in Engineering & Design. Moreover, they should be capable of executing the entire scope as detailed earlier. Also the firms submitting offer should meet the following pre-qualification criteria

Seal & Signature of the Tenderer:

- 4.1 Vendor shall have not less than five years of experience in this field. List of Low TDS Industrial Waste Water Treatment Plant for chemical / textile / tannery industries supplied year wise with capacity details, customer name & customer contact details from Apr 2016 are to be submitted.
- 4.2 Vendor should submit min of 2 Nos of order copies for supply of 20 KLD or higher capacity of ETP within last 5 years from Apr 2016
- 4.3 Vendor should have annual turnover not less than Rs. 1 crore. Copy of Audited Annual reports/profit and loss statements duly certified by chartered accountant of any one year in last 5 financial years and PAN/TAN should be submitted.
- 4.4 Vendor should submit the offer only after visiting our site for understanding the technical requirement clearly as per site condition. Site visit form enclosed (Annexure-4) duly signed by both vendor's representative and BL representative on visit should be submitted (Refer Annexure-1 for technical contact representative of BL). Offers submitted by vendor who have not visited the site will be rejected.

Pre-qualification of the bidder shall not imply final acceptance of the tender. The bids may be rejected at any stage during the techno commercial; evaluation or during the price evaluation. The decision in regard to acceptance and / or rejection of any / all offers in part/full shall be at the sole discretion of BL, and decision in this regard shall be binding on the bidder.

The vendor shall submit the relevant copies of the documents pertaining to each of the above qualification criteria and all the copies have to be self-attested

5. BID SECURITY DECLARATION (EMD)

The bidder shall submit Bid Security Declaration in lieu of EMD as per format given in **Annexure- A** .

- a. **OFFERS RECEIVED WITHOUT BID SECURITY DECLARATION WILL BE REJECTED**
- b. If the successful bidder is unable to accept or execute orders when placed upon him or withdraws / upwardly revises his quoted prices, within the validity period of his tender or after placement of the Order / Letter of Intent, successful Bidder fails to deliver the material as per the terms & condition of the Purchase Order or violates the tender conditions, the bidder will be suspended to participate in tenders till 31.03.2022.

6. PRICE

6.1 Only after techno-commercial evaluation based on the unpriced offer (Techno-commercial bid) and subsequent clarifications, if any, the qualified /shortlisted parties will be asked/allowed to submit their price bid online.

**6.2 The price to be submitted at our e-portal only, as per the indicative format below:
(Submission of offline price bid will disqualify the bidders' participation in the tender)**

Seal & Signature of the Tenderer:

(I) Price Bid for Supply, erection and commissioning of Low TDS Industrial Waste Water Treatment Plant AS PER SPECIFICATIONS

Item	Particulars	Formula (if any)
1	Unit Of Measurement	No.
2	Basic Price	A
3	FREIGHT (Including Insurance)	B
4	TOTAL BASIC PRICE (Including freight & Insurance)	C= SUM (A+B)
5a	CGST (Enter applicable Rate in %)	D1=C* (Applicable CGST Rate in %)
5b	SGST (Enter applicable Rate in %)	D2=C* (Applicable SGST Rate in %)
	OR	
6	IGST (Enter applicable Rate in %)	D3=C* (Applicable IGST Rate in %)
7	Total Cost	E= SUM(C+(D1+D2) or D3)
8	Less: CGST	F= D1
9	Less: SGST	G= D2
10	Less: IGST	H= D3
11	Landed Cost	I= (E- (F+G) or H)
12	Unloading	BL's Scope
13	HSN Code of the tendered item	To be provided by Vendor

The basic price should include loading charges at supply premises, packing and forwarding. Price quoted should be on FOR Manali basis in **Rs.**

Note:

Related Civil work, if any, for erection of the equipment/machinery and for RCC structures will be carried out by BL. However, installation, commissioning, testing and demo of the equipment is in Vendor's scope. Charges for installation and commissioning are to be included in the basic price itself. No additional charges are payable for the same.

Vendor has to provide the applicable GST rate in % in the relevant fields as above during price bidding. **If a vendor quotes with CGST & SGST, then they may ENTER "0" (Numerical Zero) in IGST field and similarly, If a vendor quotes with IGST, then they may ENTER "0" (Numerical Zero) in CGST & SGST fields.**

Changes in statutory levies like GST and any taxes as applicable on the product shall be reimbursed at actuals based on documentary proof. Taxes and duties as applicable shall be clearly mentioned.

6.3 No Change in the accepted price structure on the basis of landed cost at our Manali works shall be permitted during the period of contract under any circumstances

The vendor has to quote their price as per the above format.

Order will be issued to overall lowest (L1) quoted tenderer.

Seal & Signature of the Tenderer:

7. SECURITY DEPOSIT

Successful tenderer shall be required to submit within 10 days of issue of LOI / PO, SD equivalent to **3%** of the total order value rounded off to the nearest thousand rupees by a/c payee pay order / demand draft / irrevocable BG as per our format with a validity of further 3 months from expiry of the contract. The BG format will be issued to successful bidder. No interest will be payable on the SD held with us.

If SD is not received within 10 days from date of LOI/PO, the amount will be deducted from the vendor's bills.

The Security Deposit paid by Pay Order/Demand Draft/Bank Transfer shall bear no interest and shall be refunded to successful bidder, only on successful delivery of the pallets

All sums of compensation or other sums of money as determined, if any, payable by the bidder may be deducted from the Security Deposit.

The Security Deposit amount can be adjusted to the extent of EMD amount for the successful bidder.

Security deposit is liable to forfeiture in the event of:

- a. Not supplying the material after Acceptance of Purchase Order.
- b. Successful Bidder fails to deliver the product as per the terms & condition of the Purchase Order.
- c. Successful Bidder violates the tender conditions.
- d. If the performance of the bidder is found to be unsatisfactory
- e. Any unilateral revision made by the successful bidder during the validity period of the contract.

8. PAYMENT TERMS

8.1 Our payment terms would be

- 15% of basic as advance against submission of Advance Bank Guarantee valid for 6 months or valid for the delivery period whichever is later
- 50% of basic with full duties and taxes: with 30 days credit from date of receipt and acceptance;
- 25% of basic on successful completion of commissioning (certified by BL)
- Balance 10% of basic against PBG valid for one year extended further by 3 months Or after one year of retention period.

Note: In case of payment terms differing from above, suitable adjustments will be made in arriving at the landed cost while price comparison. However, partial advance payment, if any, prior to dispatch is payable only against Advance Bank Guarantee (taken from a nationalized bank) as per BL format.

Offers seeking payment before supply without Advance Bank Guarantee will be rejected.

Seal & Signature of the Tenderer:

Advance Bank Guarantee /Performance Bank Guarantee format shall be given to successful tenderer and if the tenderer is submitting BG, it shall be strictly as per our BG format only. ABG, if any, shall be submitted within 10 days from the date of LOI/PO. Advance against ABG will be given only after submission of SD.

- 8.2** Supply will be complete only if all relevant documents etc are submitted. Relevant Material test certificate for bought out items to be submitted along with dispatch.
- 8.3** **Payment will be made only to the bidder or principal on whom the Purchase Order is placed. If offer states that payment is to be made to bidder's financier / creditor, the offer will stand rejected.**

9. GUARANTEE

- 9.1** The party shall stand guarantee for material, workmanship and performance for a period of 18 months from the date of supply or 12 months from the date of commissioning, whichever is earlier.
- 9.2** During the above period, the party shall attend/repair/rectify /replace any defects whatsoever in material, workmanship and performance.

10. DELIVERY & COMMISSIONING:

- 10.1** Delivery is expected **within 12 weeks** from date of PO/LOI. However, vendor shall mention their earliest possible delivery period clearly.

Drawings on Schematic diagram, plant details, Civil layout as per site condition, foundation requirement, other civil structure requirement etc shall be submitted within 10 days from the date of receipt of LOI/PO.

The delivery period mentioned above is inclusive of inspection (if any) & transit time.

Any delay in submission of Bank Guarantee, drawings etc & delay due to inspection & testing/transportation will be counted into delivery time taken by vendor only.

- 10.2** Erection and Commissioning shall be carried out by supplier. **For this, no additional charges will be paid.**
- 10.3** Erection and commissioning shall be completed **within 20 days** from site clearance.
- 10.4** On commissioning performance testing to be carried out by vendor so as to meet the statutory compliance stipulated by Pollution Control Board.
- 10.5** Refer **Annexure-5** for adherence of statutory compliance during installation and commissioning work at our premises.

Seal & Signature of the Tenderer:

11. LD Clause:

The material shall be delivered as per committed delivery schedule without fail. Any delay in delivery/commissioning as per agreed schedule will be liable for imposition of LD @0.5% of the total order value per week subject to a maximum of 5% on total basic value.

12. CONFLICT OF INTEREST

The bids of any tenderers may be rejected if a conflict of interest between the tenderer and the Company is detected at any stage

13. RISK PURCHASE

Without prejudice to other provisions in the tender, in the event of the vendor failing to supply within the stipulated delivery period, BL shall have the right and option to procure the products from alternate sources, at the risk and cost of the vendor, without further intimation. In case of rejection and with no request for re-test from vendor against the rejection or on confirmation of rejection after re-test, if dispatch of replacement material is not made within mutually agreed time period, BL shall have the right to procure the product from alternate sources, at the risk and cost of the vendor, without further intimation.

14. DELIVERY TO PLANT

Purchase Order under this tender will be placed for DELIVERED supplies. Transit Risk for the supplied material, Insurance coverage thereof will be borne by the supplier.

15. DESPATCH & TESTING

If required, inspection of the material shall be conducted at the vendor's premises before delivery, in presence of BL representative.

Refer clause no. 10, Delivery.

Release note to be obtained from BL for dispatch clearance. Only after due clearance from BL, the racks material shall be dispatched from the vendor premises.

16. ARBITRATION

Any dispute or difference arising under this Contract shall be referred under jurisdiction of Chennai to a sole arbitrator to be appointed by the Chairman & Managing Director, Balmer Lawrie & Co. Limited and the provisions of Arbitration and Conciliation Act, 1996 including any statutory modifications or enactment thereof shall apply to the Arbitration proceedings. The fees of the arbitrator, if any, shall be shared equally by both the parties. The award shall be a speaking award stating reason therefore and is final and binding on the parties. The proceeding shall be conducted in English language and courts at Chennai will have exclusive jurisdiction to settle any dispute arising out of this contract.

17. GST TAX FORMALITES & COMPLIANCE WITH REGULATIONS

Vendor shall warrant that all goods covered by this agreement / contract are dispatched and delivered in strict compliance with all applicable laws, regulations, labour agreements, working conditions and technical codes and requirements as applicable from time to time. The vendor shall execute and deliver such documents as may be required to effect or to evidence such compliance.

Seal & Signature of the Tenderer:

The vendor shall issue the GST invoice so that equivalent amount may be availed as GST / applicable tax credit by BL. Vendor / vendor's nominated transporter shall ensure handing over of the GST paid invoice for availing concerned levy to the Company at the time of delivery of the consignment.

All laws and regulation required to be incorporated in this charter are hereby deemed to be incorporated by these references. BL and / or their authorized representatives disown any responsibility for any irregularity, contravention or infringement of any statutory regulations in the manufacture and / or supply of goods covered by this agreement / contract.

The processing of invoice should be as per the GST Act. Any penalties due to the non-adherence will be deducted from your invoice.

18. ANTI-PROFITEERING CLAUSE

GST Act anti-profiteering provisions mandates that any reduction in tax rates or benefits of inputs tax credits be passed on to the customer by way of commensurate reduction in prices. Vendors to take note of the same and pass such benefits to BL while quoting their price.

19. FORCE MAJEURE

Any delay in or failure of performance of either party hereto shall not constitute default hereunder or give rise to any claims for damage, if any, to the extent such delays / failure of performance is caused by occurrences such as Acts of God or an enemy, decrees of any Government or Governmental authority, acts of war, rebellion, sabotage or fires, floods, explosions, riots, or strikes. The vendor shall keep records of the circumstances referred to above and bring these to notice of the concerned Officer of the buyer in writing within 7 days of such occurrences.

The period of time, if any, lost on any of these counts shall not be counted for the contract period. The decision of buyer arrived at after consultation with vendor, shall be final and binding. Such period of time shall be extended by the buyer to enable the vendor to deliver the items within such extended period of time. As soon as the cause of Force Majeure been removed, the party whose liability to perform its obligation has been affected shall notify the other of such cessation and inform the other party the actual delay incurred in such affected activities. Any such event, whenever it occurs, provided that it prevents, affects or delays the party in performing contractual obligation, shall justify the claim of Force Majeure.

During the pendency of Force Majeure conditions, the Agreement and the obligations there under shall stand suspended provided the notice as required above is given in time. If such event continues beyond 14 days, the parties to this Agreement hereby agree to discuss and decide the course of action to be adopted in this regard including the possibility and manner of terminating the Agreement.

20. CONDITIONS / PROCEDURE FOR BID SUBMISSION

The bidder would be required to register on the e-procurement market place <https://balmerlawrie.eproc.in> and submit their bids online. **No offline price bids will be entertained by the Tender Inviting Authority.** The bidders shall submit their price bid displayed in e Procurement web site. The bidders shall submit/upload copies of all the relevant certificates, documents etc., in support of their eligibility criteria / technical bids to the Tender Inviting Authority before the due date for tender submission in the e-procurement portal. The bidder shall sign on the statements, documents, certificates, owning responsibility for their correctness/authenticity.

Seal & Signature of the Tenderer:

21. Registration with eProcurement platform

For registration and online price bid submission, bidders may contact HELP DESK of M/s C1 India Pvt., Ltd., or they can register themselves online by logging in to the website <https://balmerlawrie.eproc.in>. **Vendors need to get themselves registered online as above to participate in tender**

HELPDESK NOS ARE OPEN BETWEEN 1000 HRS to 1830 HRS IST (MONDAY TO FRIDAY (Exclusions: Balmer Lawrie HOLIDAYS))			
Please email your issues before your call helpdesk. This will help us serving you better.			
Balmer Lawrie & Co Ltd. , 21, Netaji Subash Road, Kolkata - 700 001			
Dedicated email : blsupport[at]c1india[dot]com			
Dedicated Helpdesk for Balmer Lawrie			
Contact Person	E-Mail ID	Tel. No.	Helpdesk Nos are open from
. Mr. TirthaDas (Kolkata)	tirtha.das@c1india.com	+91-9163254290	MON - FRI
. Mr.Partha Ghosh (Kolkata)	partha.ghosh@c1india.com	+91-8811093299	MON - FRI
. Ms. Ujwala Shimpi (Mumbai)	ujwala.shimpi@c1india.com	+91-22-66865608	MON - FRI
. Helpdesk Support (Kolkata)		+91-8017272644	MON - SAT
Escalation Level 1			
Ir.Tuhin Ghosh	tuhin.ghosh@c1india.com	+91-8981165071	

22. Digital Certificate authentication

The bidder shall authenticate the bid with his Digital Certificate before submitting the price bid electronically on e Procurement platform and the bids not authenticated by digital certificate of the bidder will not be accepted on the e Procurement platform. All the bidders who do not have Digital Certificates with encryption need to obtain Digital Certificate with encryption to participate in e-tender. They may contact Help Desk of C1 India Pvt Ltd.

23. Corrigendum to tender

The bidder has to keep track of any changes by viewing the addendum / corrigendum's issued by the Tender Inviting Authority on time-to-time basis in our website www.balmerlawrie.com and our e-Procurement platform <https://balmerlawrie.eproc.in>. The Company inviting tender shall not be responsible for any claims / other issues arising out of this.

24. Bid Submission Acknowledgement

The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. Tender Inviting Authority and C1 India Pvt. Ltd. will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Tender Inviting Authority for processing. Before uploading scanned documents, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.

Seal & Signature of the Tenderer:

25. SUBMISSION OF TENDER DOCUMENTS [excluding price bid]

BL expects bidders' compliance of bid document without any deviation. Deviation if felt absolutely necessary in respect of terms & conditions / quality should be mentioned in the deviation sheet as per format of the EOI/ tender documents and furnished along with techno-commercial bid (not with price bid) online. BL shall not take cognizance of any deviation stipulated elsewhere in the bid. **The deviations, if mentioned, are subject to approval by BL.**

Bulky supporting documents which are difficult to upload online can be submitted offline before due date.

EOI with Techno-commercial bid shall comprise the following:

1. Copy of this EOI document No. **BL/AS/MAN/CP7ETP/LT/202122/____** duly signed & stamped on all pages by the authorized signatory as a token of acceptance of tender terms & conditions.
2. **Bid Security Declaration**, Declaration on local content of material, MSME registration – **Annexure-A**
3. Duly filled specifications as sought in **Annexure- 1**
4. Duly filled commercial terms as sought in **Annexure- 2**
5. Duly filled vendor details & GST details as sought in **Annexure- 3**
6. Duly filled Site Visit Form as sought in **Annexure-4**
7. Duly filled Annexure – 5 – (ESI/PF/HSE obligations for carrying out installation and commissioning at site)
8. Deviation sheet as per format [nil statement to be attached even if there are no deviations].
9. Details sought under **pre-qualification criteria**.
10. The sealed envelope containing all the above documents superscribing **“EOI/ Unpriced Techno-Commercial Offer for – “Low TDS Industrial Waste Water Treatment Plant”**, Ref: Tender No **BL/AS/MAN/CP7ETP/LT/202122/0009**

SM (SCM – Capex & Projects)
BALMER LAWRIE & CO. LTD.
SBU Chemicals
32, Sathangadu Village, Manali,
Chennai – 600068.

Phone : 044 – 25946544/563

Fax : 044 – 25941156

valarmathi.m@balmerlawrie.com

26. SUBMISSION OF PRICE BID (ON-LINE ONLY)

- 26.1 **Only after techno-commercial evaluation based on the EOI/ unpriced offer (Techno-commercial Bids) and subsequent clarifications, if any, the qualified / shortlisted vendors will be asked/ allowed to submit their price bid online.**

Seal & Signature of the Tenderer:

26.2 Vendors to submit their price online only, as per the indicative format as per clause 6 as sought in our e-procurement portal.

26.3 SUBMISSION OF OFF- LINE PRICE BID WILL DISQUALIFY THE BIDDERS'S PARTICIPATION IN THE TENDER

27. EVALUATIONS OF BIDS

The on-line closed price bids shall be used for grading the bidders. **Technical evaluation of the offers received would be done, based on the technical specification given in Annexure-1.**

Price evaluation of technically qualified bids will be done as above and lowest landed rate including all items (net of GST, as applicable) shall be taken as L1 price and next lowest as L2 price and so on.

100% order will be awarded to L1 bidder.

In case, bids are received from related Companies, only the lowest among such bids shall be considered for evaluation. The other bids of related Companies will stand rejected.

If required, during technical evaluation, the facilities of the manufacturer and their clients will be visited by BL for verification.

28. VALIDITY OF OFFER

Your offer should be valid for our acceptance up to **75 days** from the due date of this tender **(i.e. From 27.07.2021)**.

29. LOCAL CONTENT DECLARATION

Preference to Make in India Policy – Local content in the tendered items (Order No P-45021/2/2017-PP (BE-II) dated 04.06.2020 of Department for promotion Of Industry and Internal Trade, Ministry of Commerce and Industry, Govt Of India.

Further the above referred Order defines' Local Content, "Class -I local supplier" and "Class II local supplier" as under:

"Local Content" means the amount of value added in India which shall unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.

Class – I local supplier – means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal or more than 50%, as defined under this Order.

Class – II local supplier – means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20%but less than 50 %, as defined under this Order.

Seal & Signature of the Tenderer:

Tender Ref: BL/AS/MAN/CP7ETP/LT/202122/0009

Vendor should note that "Class I Local Supplier" would be given purchase preference under Make in India Policy as per Order No P-45021/2/2017-PP (BE-II) dated 04.06.2020 of Department for promotion Of Industry and Internal Trade, Ministry of Commerce and Industry, Govt Of India. However this preference would be applicable after netting off the quantity allotted (if any) to MSE vendors as per MSE of this tender.

In view of above guidelines, you are required to provide self-declaration in the following prescribed format. Your attention is also drawn towards Para 9 (f) and (g) of the above referred Order of GOI, prescribing action in case of false declaration, as under.

SI No Service(s) Description Percentage of local content in your service(s)

*** Please declare in Annexure –A**

False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

A supplier who has been debarred by any procuring entity for violations of this order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities..

30. GENERAL

BL shall not take any responsibility for any delay or non-receipt of said documents. If any of the documents furnished by the bidder is found to be false / fabricated, the bidder is liable for black listing, forfeiture of the EMD, cancellation of work and criminal prosecution.

BL reserves the right to accept any tender in whole or split the order or reject any or all tenders without assigning any reason.

BL shall not be bound to accept the lowest tender and reserves the right to accept any or more tenders in part. Decision of BL in this context shall be final and shall be binding on the bidders.

Whenever there is a duplication of clause in the terms and conditions, the clause which is beneficial to the Company will be considered applicable at the time of any dispute. It may be noted that if any term is not mentioned in offer, it will be considered as per our tender only.

It shall be understood that every endeavor has been made to avoid error which may materially affect the basis of the tender and the successful bidder will take upon himself to provide for risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.

31. DISCLAIMER CLAUSE

Neither the Company (Balmer Lawrie & Co. Ltd.) nor the service provider (C1 India Pvt. Ltd.) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

Seal & Signature of the Tenderer:

32. AWARD OF CONTRACT

The order will be awarded to the overall lowest quoted tenderer based on the rate provided in the PRICE SCHEDULE in our e-procurement website.

If required, the Company would carry out negotiation with the tenderers and it would be in the interest of the tenderers to give their most competitive rates.

For Balmer Lawrie & Co Ltd

SM (SCM – Capex & Projects)

**Encl: Annexure- 1 (12 pages) - Technical Requirements
Indicative Schematic Diagram (1 page)
Annexure- 2 (1 page) - Commercial Requirements
Annexure- 3 (1 page) - Vendor Details
Annexure- 4 (1 page) – Site Visit Form
Annexure-A (1 page) – Bid Security / Local content Declaration & MSME
Deviation Sheet Format- (1 page)
Annexure-5 (5 pages) – ES/PF and Safety regulations**

Seal & Signature of the Tenderer:

Vendor is requested to confirm all the data:

Technical Questionnaire

Design Criteria

Design Criteria

(Other than RO system)

Capacity	25 KLD
Operating hours	20 - 24 hrs per day
Flow rate	Suitable for 25KLD

(RO system)

Capacity	40 KLD
Operating hours	10 hrs
Flow rate	2 m ³ /hr appx

Inlet Waste Water

pH	6.5 - 8.5 appx
TDS	<= 3000 ppm
TSS	<= 800 ppm
Oil & Grease	<= 150 ppm
BOD	<= 300 ppm
COD	<= 1000 ppm

Final Treated Water

pH	6.5 - 8.5
TDS	< 2100 ppm
TSS	<10 ppm
Oil & Grease	<10 ppm
BOD	<30 ppm
COD	<250 ppm

Note:

Reject water from RO shall be connected to existing ZLD plant. Pumps, pipelines, valves & fittings necessary for the same shall be of vendor's scope.

RO system with capacity to treat 40KLD as above.

Treated final water shall be pumped to separate overhead tanks (supply scope of vendor) to be located at 21m level (appx). Necessary tanks, pumps, pipes& fittings, valves etc shall be included in scope of supply.

It may be noted that the drawings with dimensions of civil structures and layout shall be submitted as a compact one as per site conditions and it shall meet Tamilnadu Pollution Control Board's norms.

Seal & Signature of the Tenderer:

Vendor is requested to confirm all the data:

Sl.No	Description	Tender Requirement	Vendor's offer
	Description	Low TDS effluent (Waste water) treatment Plant	
1	Bar screen		
a	Quantity	1 No.	
b	Fine and Coarse Screen Size	600mm X 600mm appx	
c	M.O.C	Mild steel Epoxy coated	
d	Type	Inclined	
2	Oil Skimmer		
a	Quantity	1 No.	
b	Capacity	Suitable for 20 KLD input	
c	MOC	Oleophilic Polymer	
d	Make	Vendor to specify	
e	Type	Belt type	
f	Oil Skimmer Chamber	RCC – by BL. Drg to be provided by Vendor. Please specify size	
3	Collection CUM equalization tank		
a	Quantity	1 No	
b	Tank Volume	10KL appx	
c	MOC	RCC - by BL	
d	Scope	Drawing to be provided by vendor for RCC structure	
4	Raw effluent transfer pump		
a	Quantity	2 Nos(1W+1S)	
b	Capacity	Please specify for 25 KLD	
c	Head	10-15mwc	
d	Type	Horizontal Centrifugal / Sealless	
e	MOC of body / Impeller	PP	
f	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
5	Lime dosing system		
a	Pump Capacity	Please specify	
b	MOC	PP	
c	Type	Diaphragm	
d	Quantity	1 No.	
e	Make	E Dose / Eqvt	
f	Dosing Tank	100 L - 1 No (HDPE/PP)	

Seal & Signature of the Tenderer:

Vendor is requested to confirm all the data:

Sl.No	Description	Tender Requirement	Vendor's offer
6	Alum dosing system		
a	Pump Capacity	0-10 LPH	
b	MOC	PP	
c	Type	Diaphragm	
d	Quantity	1 No.	
e	Make	E Dose / Eqvt	
f	Dosing Tank	100 L - 1 No (HDPE/PP)	
7	Polyelectrolyte dosing system		
a	Pump Capacity	0-6 LPH appx	
b	MOC	PP	
c	Type	Diaphragm	
d	Quantity	1 No	
e	Make	E Dose / Eqvt	
f	Dosing Tank	50 L - 1 No (HDPE/PP)	
8	Flash mixer		
a	Quantity	1 No	
b	Capacity	Please specify	
c	Tank volume	Please specify	
d	Tank MOC	Please specify	
e	Agitator, Motor HP, RPM, make etc	Please specify	
9	Flocculator		
a	Quantity	1 No	
b	Capacity	Please specify	
c	Tank Volume	Please specify	
d	Tank MOC	RCC – by BL.	
e	Agitator, Motor HP, RPM, make etc	Please specify	
10	Primary settling tank		
a	Quantity	1 No.	
b	Tank Volume	Please specify	
c	MOC	RCC - by BL	
d	Scope	Dimensional drg to be provided by vendor for RCC structure.	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
11	Air Blower		
a	Quantity	2 Nos (1 W+1 S)	
b	Capacity	25 m3/Hr appx. Please specify as per design	
c	MOC	CI	
d	Make	KPT/Kay/Everest/Eqvt	
12	Fine bubble diffusers	Non -corrosive	
a	Type	Please specify	
b	Make	Please specify	
c	MOC & Qty	Please specify. Shall be suitable for effluent	
13	Aeration Tank		
a	Quantity	1 No	
b	Tank Volume	25 KL appx (please specify as per design)	
c	MOC	RCC - by BL. Drg to be provided by vendor for RCC structure.	
e	MBBR Media / Fine Diffusers	1 lot - PVC	
14	Secondary settling tank		
a	Quantity	1 No	
b	Tank Volume	Please specify	
c	MOC	RCC - by BL	
d	Scope	Dimensional drg to be provided by vendor for RCC structure.	
15	Settling Media		
a	MOC of Media & Qty	PVC - Tube settler media - 1 lot as required for the project	
b	Make	Southern Cogen / Eqv.	
16	Sludge Transfer Pump		
a	Quantity	2 Nos.(1W + 1S)	
b	Capacity	Please specify for 25 KLD	
c	Head	10MWC	
d	Type	Self Priming, Horizontal centrifugal Sludge Pump	
e	MOC of body / Impeller	PP	
f	Make	Kirloskar /CG/Eqvt	
h	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	

Seal & Signature of the Tenderer:

Annexure – 1 (Page 5 of 12)
(Low TDS Treatment Plant)

Sl.No	Description	Tender Requirement	Vendor's offer
17	Sludge Drying Bed		
a	Quantity	2 Nos	
b	Size	Please specify	
c	MOC	RCC - by BL	
d	Scope	RCC - by BL. Drg to be provided by vendor for RCC structure.	
18	Media for Sludge Drying Bed	As required for the beds	
a	Fine Silex	1 Lot	
b	Coarse Silex	1 Lot	
c	Gravel or pebbles	1 Lot	
19	Clear water tank		
a	Quantity	1 No	
b	Tank Volume	Please specify	
c	MOC	HDPE (treated for outdoor use)	
20	Hypo (Chlorine) Dosing System	1 No	
a	Pump Capacity	0-6 LPH appx. Specify as per design	
b	MOC	PP	
c	Type	Diaphragm	
d	Make	E dose/Eqvt	
e	Dosing Tank	100 Lit - 1 No (HDPE/PP)	
21	Filter feed pump		
a	Quantity	2 Nos(1W+1S)	
b	Capacity	Please specify for 25 KLD	
c	Head	30mwc	
d	Type	Please specify	
e	MOC of body / Impeller	Please specify	
f	Make	Kirloskar /CG/Eqvt	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
22	Multigrade Pressure Sand Filter		
a	Quantity	1 No	
b	Type	Vertical	
c	MOC	FRP with MPV	
d	Capacity	Please specify for 25 KLD	
e	Diameter x HOS	Please specify	
f	Valve type	Multiport valves	
g	Media	Sand, Silex & Supporting media	
h	Make	Please specify	
23	Activated Carbon Filter		
a	Quantity	1 No.	
b	Type	Vertical	
c	MOC	FRP with MPV	
d	Capacity	Please specify for 25 KLD	
e	Diameter x HOS	Please specify	
f	Valve type	Multiport valves	
g	Media	Activated Carbon, Sand, Silex & supporting media. Please specify	
h	Make	Please specify	
	ULTRA FILTRATION	with online/ disc filters	
24	UF Feed tank	Use clear water tank	
25	UF Feed Pump		
a	Quantity	2 Nos(1W+1S)	
b	Capacity	Please specify for 25 KLD	
c	Head	10-15mwc	
d	MOC of body / Impeller	PP / SS. Please specify	
e	Type	Please specify	
f	Make	CG/Eqvt	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
26	Basket Strainer	Please specify details	
a	Quantity	1 No	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
27	Ultra Filtration System (UF membrane)		
a	Quantity	1 set	
b	Feed flow rate	Please specify	
c	Recovery	90%	
d	No. of modules	Please specify	
e	Membrane surface area	Please specify as per design	
f	MOC of membrane	Please specify	
g	Make	Hitech/Suez/eqvt	
28	UF Hypo Dosing system – Please specify details		
29	UF Alkali (Caustic) Dosing System		
a	Quantity	1 No.	
b	Capacity of pump	Suitable for UF design	
d	Type	Diaphragm	
e	MOC	PP	
f	Make	E dose/Eqvt	
g	Dosing tank	1 No - 50 L (HDPE/PP)	
30	UF Acid (HCL) Dosing System		
a	Quantity	1 No.	
b	Pump capacity	Suitable for UF design	
c	Type	Diaphragm	
d	MOC	PP	
e	Make	E dose/Eqvt	
f	Dosing tank	1 No - 50 L (HDPE/PP)	
31	UF Backwash Pump		
a	Quantity	2 Nos(1W+1S)	
b	Capacity	3 m3/hr appx. Please specify as per design	
c	Head	10-15mwc appx	
d	Type	Monobloc	
e	Make	Kirloskar/CG/Eqvt	
f	MOC of body / Impeller	Please specify	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	

Seal & Signature of the Tenderer:

Annexure – 1 (Page 8 of 12)
(Low TDS Treatment Plant)

Sl.No	Description	Tender Requirement	Vendor's offer
32	Dosing Systems as required prior to RO	Antiscalant, Antioxidant, Hypo, pH correction dosing systems - Please specify details	
	REVERSE OSMOSIS 40 KLD		
33	UF Treated Water Tank / RO Feed Tank		
a	Quantity	2 Nos	
b	Tank Volume	10 KL each	
c	MOC	HDPE (treated for outdoor use)	
d	Make	Syntex / eqvt	
34	RO feed pumps		
a	Quantity	2 Nos (1W+1S)	
b	Capacity	2m3/hr appx	
c	Head	20-25mwc appx	
d	Type	Monobloc	
e	Make	CG/Eqvt	
f	MOC of body / Impeller	SS	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
35	Micron Cartridge Filters		
a	Quantity	1 No or 2 Nos. Please specify as per design	
b	Capacity	Please specify	
c	Micron Ratings	Please specify	
d	MOC of Housing & Cartridge	Please specify	
e	Cartridge type	Please specify	
f	Cartridge length	Please specify	
g	No of cartridges	Please specify	
h	Make	Please specify	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
36	RO high pressure pumps		
a	Quantity	2 Nos (1W+1S)	
b	Capacity	3.2 m3/hr appx.	
c	Pressure	16.7 Kg/cm2 appx	
d	Type	Monobloc	
e	Make	CG/Eqvt	
g	MOC of body / Impeller	SS 316	
h	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
37	RO Cleaning System		
	Qty	1 No – specify details	
	CIP SYSTEM		
38	CIP Pump		
a	Quantity	1 No	
b	Capacity	2m3/Hr appx	
c	Head	Please specify	
d	MOC of body / Impeller	SS	
e	Type	Please specify	
f	Make	CG/Eqvt	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
39	CIP micron Filter		
a	Quantity	1 No	
b	Capacity	Please specify	
c	Size	Please specify	
d	MOC of Housing & Cartridge	Please specify	
e	Cartridge type	Please specify	
g	Cartridge type	Please specify	
h	No. of cartridges	Please specify	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
40	RO system		
a	Capacity	40 KLD input	
b	Flow rate	2 m3/hr appx	
c	% Recovery	80%	
d	Operating hours	max 20 hrs/day for 40 KLD	
41	RO membrane		
a	Type	Spiral wound, Thin film	
b	Size & Qty	Suitable for handling 40KLD with 80% recovery. Please specify	
c	Make	Filmtec / Eqv	
42	RO pressure vessel / housing		
a	Size & Qty	Suitable for handling 40KLD with 80% recovery. Please specify	
b	Pressure	Please specify	
c	MOC	FRP	
43	Mounting Skids	As required for the system. Please specify	
44	Ro Reject Water Tank		
a	Quantity	1 No	
b	Tank Volume	Please specify as per design	
c	MOC	HDPE (treated for outdoor use)	
d	Make	Syntex/ equivalent	
45	RO Reject Water transfer pumps		
a	Quantity	2 Nos (1W+1S)	
b	Capacity	3 m3/hr	
c	Head	10-15mwc	
d	Type	Please specify	
e	Make	Kirloskar/CG/Eqvt	
f	MOC of body / Impeller	PP	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
46	Treated water buffer tank		
a	Quantity	1 No	
b	Capacity	10 KL	
c	MOC	HDPE (treated for outdoor use)	
d	Make	Sintex/eqvt	
47	RO Treated Water transfer pumps		
a	Quantity	2 Nos(1W+1S)	
b	Capacity	10 m3/hr	
c	Head	40 mwc appx	
d	Type	Please specify	
e	Make	Kirloskar/CG/Eqvt	
f	MOC of body / Impeller	PP	
g	Motor HP, RPM, Type, make etc	Please specify details. Type– IE2 / IE3	
48	Treated water Overhead tank-1		
a	Quantity	1 No	
b	Capacity	10 KL	
c	MOC	HDPE (treated for outdoor use)	
d	Make	Syntex/ Eqvt	
e	Location to be installed	Existing terrace of Syntan Plant	
49	Treated water Overhead tank-2		
a	Quantity	1 No	
b	Capacity	10 KL	
c	MOC	HDPE (treated for outdoor use)	
d	Make	Syntex/ Eqvt	
e	Location to be installed	Existing terrace of IP	

Seal & Signature of the Tenderer:

Sl.No	Description	Tender Requirement	Vendor's offer
50	Pipes, Fittings, Valves & Accessories – 1 lot		
a	Location	For interconnecting all equipment and systems within ETP, (ii) for pumping reject from ETP to existing ZLD plant and (iii) for pumping treated water from ETP to Overhead tanks on terrace	
b	All pumps suction & discharge		
e	From ACF to UF system		
f	Piping for RO system (High pressure / Low pressure)		
g	All low pressure interconnecting Piping / Chemical lines		
h	Pipes-MOC	UPVC	
i	Make	Astral / Equivalent	
51	Control Panel		
a	MOC	MS powder coated	
b	Size	As per design	
c	Make	Please specify	
52	Instruments	Please specify details	
53	PROPOSED SCHEMATIC DIAGRAM		
	Schematic Diagram for the proposed Low TDS ETP shall be submitted	Vendor to submit alongwith technical offer	

NOTE:**Indicative diagram enclosed for reference**

Detailed drawings on Schematic diagram, plant details, Civil layout as per site condition, foundation requirement, other civil structure requirement etc shall be submitted within 10 days from the date of receipt of LOI/PO.

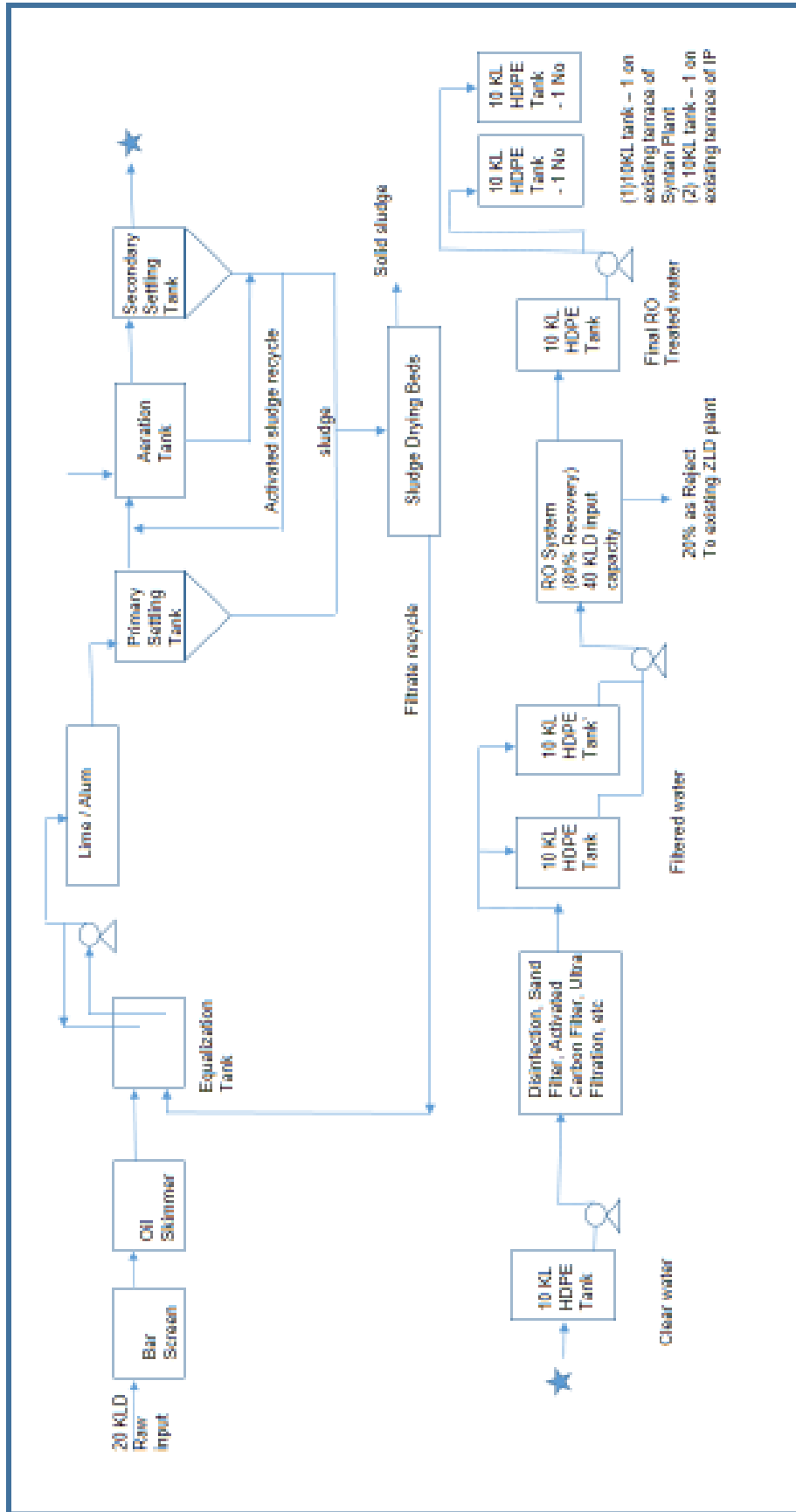
Tenderer should visit the site before submitting the tender to assess the requirement.

Please contact BL technical representative(s), Dr.J.P.Shyamasundar / Mrs M Valarmathi – 044-25946544 / 25946563/9444299477 / (Board No:044-25946500)

Seal & Signature of the Tenderer:

Indicative schematic diagram

Low TDS ETP – Indicative Flow Chart



Vendor is requested to confirm all the data provided in the table below:**Commercial:**

SL No.	ITEM DESCRIPTION	BL REQUIREMENT	VENDORS OFFER
1	Validity	75 days from 27.07.2021	
2	Delivery	Delivery is expected within 12 weeks from date of LOI/PO. However, vendor shall mention their earliest possible delivery period clearly.	
3	Installation & Commissioning	Within 20 days from Site clearance	
3	Guarantee Period	18 months from the date of supply or 12 months from date of commissioning, whichever is earlier.	
5	Payment Terms	15% of basic as advance against submission of Advance Bank Guarantee valid for 6 months or valid for the delivery period whichever is later 50% of basic with full duties and taxes: with 30 days credit from date of receipt and acceptance; 25% of basic on successful completion of commissioning (certified by BL) Balance 10% of basic against PBG valid for one year extended further by 3 months Or after one year of retention period.	
6	Packing and Forwarding	To be included in the basic price	
7	Taxes & Duties		
a	GST (8 Digit HSN code of the tendered item)	To be Specified by Vendor	
b	GST rate %	To be Specified by Vendor	
8	Transit Insurance	To be arranged by vendor	
9	Transportation	To be arranged by vendor	
10	Unloading at BL site	By BL	
11	Installation and commissioning	By Vendor. Charges if any shall be included in basic itself. No additional cost will be paid extra.	

Seal & Signature of the Tenderer:

Vendor is requested to provide all the data in the table below, as applicable:

1.	Supplier Name	
2.	House No with address 1	
3.	Address 2	
4.	City	
5.	Postal code	
6.	State	
7.	Tel No	
8.	Mob No	
9.	Fax	
10.	Email	
11.	Industry Type*	Domestic / service vendor / MSME*/ SSI* / trader / others (specify it)
12.	If MSME registered, provide UAN number	
13.	If MSME registered, under category SC/ST?	
14.	Contact Person	
15.	PAN no*	
16.	State code (as per GST)	
17.	GSTIN Registration number*	
18.	Proof of GSTIN Registration number per state (From GSTN website)*	
19.	Particulars of Bank Account *	
(a)	Name of the Bank	
(b)	Name of the Branch	
(c)	Type of Bank Account (Current/Saving/Cash Credit etc)	
(d)	Account No.	
(e)	IFSC No.	

* - relevant registration/certificate copies & statutory documents as per GST requirements shall be submitted. Also cancelled/ copy of cheque for bank account verification need to be submitted by vendors who have not done any transactions with BL in last 2 years.

Seal & Signature of the Tenderer:

SITE VISIT FORM

Site Location: Balmer Lawrie & Co. Ltd., 32, Manali, Chennai – 68.

Vendor :

Name of Vendor's Representative :

Designation of Vendor's Representative:

Contact No. of Vendor's Representative:

Date of site visited :

Vendor's declaration: Understood the site condition and requirement in line with the tender requirement.

Signature of Vendor's representative

**Signature of BL technical representative
(Dr.J.P.Shyamsundar/M.Valarmathi)**

Seal & Signature of the Tenderer:

To be provided by vendor in their company letter head

Ref:

Date:

To:

M/s.Balmer Lawrie & Co.Ltd
32, Manali
Chennai 600 068

Sub: DECLARATION : Bid Security (EMD) /MSME / LOCAL CONTENT

Dear Sir/Madam,

TENDER REF : **BL/AS/MAN/CP7ETP/LT/202122/0009**

We declare as follows:

BID SECURITY DECLARATION

We declare that we will not withdraw or modify our bid during the period of validity and we understand that if done, we will be suspended in participating the tenders for water /waste water treatment plants upto **31.03.2022**.

MSME DECLARATION

MSME REGISTRATION : YES OR NO

If Yes, please enclose UAN/Udyam Registration Certificate

Product: Imported or Indigenous

MAKE IN INDIA POLICY DECLARATION

Sl No	Service(s) Description	Percentage of local content in your service(s)
1		Class I Local Supplier or Class II Local Supplier Local Content % :

Date :

Authorised Signatory

Place:

Seal & Signature of the Tenderer:

DEVIATION SHEET

Clause No. of the Tender	Tender Requirements	Deviation

Seal & Signature of the Tenderer:

ESI/PF and HSE obligations

ESI/PF/Other Statutory Obligations

The successful bidder on award of contract shall ensure compliance with all relevant statutory provisions under the relevant labour laws viz., Factory Act, Payment of wages Act, Minimum Wages Act (notified by Ministry of Labour, Government of India), Contract Labour (Regulation & Abolition) Act, ESI (Employees State Insurance) Act, Workmen's Compensation Act, Employees Provident Fund and Miscellaneous Provisions Act (EPF & MP Act), payment of bonus Act and other applicable labour enactments as amended from time to time in respect of personnel deployed by him in company's premises.

The successful bidder shall submit a detailed list of the personnel deployed by him in the company's premises which shall include the name, address and date of birth of the personnel deployed. They shall be permitted entry into the company's premises only after being duly verified and issue of entry passes.

The successful bidder shall issue to all personnel deployed by him in the company's premises, photo identify cards duly certified by the company. The same shall be retained by the said personnel at all times during their presence within the company's premises.

The successful bidder shall not engage persons of age below 18 years for any of the jobs specified in the tender

The successful bidder / Contractor shall be solely responsible for all matters, including safety, welfare and discipline, in respect of personnel deployed by him in the company's premises and shall keep the company indemnified thereof.

Cost if any, incurred by the company in ensuring statutory compliance with the existing labour enactments as amended from time to time or for any other matter connected with personnel deployed by the successful bidder in the company's premises shall be fully charged to the Contractor.

The personnel deployed in the company's premises by the successful bidder shall be fully qualified in all respects to carry out the activities for which he/she has been deployed. The successful bidder / Contractor shall equip the personnel deployed by him in the company's premises with all the necessary implements and **safety** equipment like helmets, goggles, mask etc. and shall ensure that adequate safety precautions are taken by them while carrying out their work in the factory premises. Also, it is the responsibility of the successful bidder to ensure adherence to **environment** related requirements by his/her employees at our site.

The payment of bill for services rendered presented by the successful bidder/ Contractor shall be processed only on submission of satisfactory proof of remittance (challans) of statutory dues such as ESI, PF etc in respect of the personnel deployed by him in the company's premises.

Seal & Signature of the Tenderer:

11. PENALTY FOR NON-ADHERENCE TO SAFETY REGULATIONS:

The tenderer has to strictly adhere to the safety requirement as per the above clause. Penalty of **Rs. 500/- per day** will be imposed if the contractor or his workers are found to be working without safety equipments in the specified areas under the safety purview as required for the above job. The contractor should give a written explanation if any of his worker is found to be working without PPE in the safety surveillance areas in the plant.

Repetitive violation of safety requirements and regulations by the contractor or his worker will lead to termination of the contract awarded to the contractor

12. Compliance to Industrial safety:

The vendor should have complied all the relevant safety standards and HSE policy as per the statutory norms. The bidders should have all the necessary valid licenses / permits / certificates as applicable to their industry / pollution board norms. Non-adherence or violation to the above criteria will lead to the cancellation of contract / order and the supplier will be blacklisted

13. HSE REQUIREMENTS BY CONTRACTORS

Housekeeping

Contractors shall ensure that their work area is kept clean tidy and free from debris. The work areas must be cleaned on a daily basis. Any disposal of waste shall be done by the Contractor.

All equipment, materials and vehicles shall be stored in an orderly manner. Access to emergency equipment, exits, telephones, safety showers, eye washes, fire extinguishers, pull boxes, fire hoses, etc. shall not be blocked or disturbed.

Confined Space

Before commencing Work in a confined space the Contractor must obtain from Owner a Permit to Work, the Permit to Work will define the requirements to be followed.

As minimum Contractors must ensure the following:

- a) Confined spaces are kept identified and marked by a sign near the entrance(s).
- b) Adequate ventilation is provided
- c) Adequate emergency provisions are in place
- d) Appropriate air monitoring is performed to ensure oxygen is above 20%.
- e) Persons are provided with Confined Space training.
- f) All necessary equipment and support personnel required to enter a Confined Space is provided.

Tools, Equipment and Machinery

The Contractor must ensure that all tools & equipment provided for use during the Work is:

- a) suitable for its intended use;
- b) safe for use, maintained in a safe condition and where necessary inspected to ensure this remains the case (any inspection must be carried out by a competent person and records shall be available);
- c) Used only by people who have received adequate information, instruction and training to use the tool or equipment.
- d) Provided with Earth leakage circuit breaker (ELCBs) at all times when using electric power cords. Use of electrical tape for temporary repairs is prohibited.
- e) The portable tools should be of fibre body and double insulated.
- f) All lifting tools and tackles should have valid test certificate.

Seal & Signature of the Tenderer:

Working at Height

Any Work undertaken where there is a risk of fall and injury is considered to be working at height.

For any Contractor Personnel working at height, Contractors shall provide fall prevention whenever possible and fall protection only when fall prevention is not practicable. Before commencing Work in a height the Contractor must obtain from Owner a Permit to Work, the Permit to Work will define the requirements to be followed. Supervisor must be present at all point of time, to ensure no deviation occur during the course of work.

Medical fitness certificate needs to be submitted for all contract employee (Blood pressure, Vertigo test must for work at height people)

a. Fall Prevention System

Fall prevention systems (e.g. fixed guardrails, scaffolds, elevated work platforms) must provide protection for areas with open sides, including exposed floor openings. Helmet, full body safety harness with double lanyard and shock absorber to be used while at height.

b. Fall Protection Systems

Where fall protection systems are used then the Contractor must ensure the following is applied:

- (i) Only approved full body harness and two shock-absorbing lanyards are used,
- (ii) Prior establishment of a rescue plan for the immediate rescue of an employee in the event they experience a fall while using the system,
- (iii) Anchorage points must be at waist level or higher; and capable of supporting at least the attached weight,
- (iv) Lifeline systems must be approved by Owner before use.
- (v) Use of ISI marked industrial helmet at all point of time.

c. Scaffolding

All scaffolds shall subject to a documented inspection by a competent person and clearly marked prior to use. The footings or anchorage for scaffolds shall be sound, rigid and capable of carrying the maximum intended load without settling or displacement. All scaffolding materials should be of MS tubular type.

Guardrails and toe-boards shall be installed on all open sides and ends of scaffold platforms. Scaffolds shall be provided with an access ladder or equivalent safe access. Contractor Personnel shall not climb or work from scaffold handrails, mid-rails or brace members.

d. Stairways and Ladders

Ladders should only be used for light duty, short-term work or access in line with the below and the Site Requirements.

- (i) Fabricated ladders are prohibited.
- (ii) Ladders will be secured to keep them from shifting, slipping, being knocked or blown over.
- (iii) Ladders will never be tied to facility services piping, conduits, or ventilation ducting.
- (iv) Ladders will be lowered and securely stored at the end of each workday.
- (v) Ladders shall be maintained free of oil, grease and other slipping hazards
- (vi) Ladders will be visually inspected by a competent person and approved for use before being put into service. Each user shall inspect ladders visually before using. Lifeline can be used for anchoring.
- (vii) Ladders with structural defects shall be tagged "Do Not Use," immediately taken out of service, and removed from the Site by the end of the day.

Seal & Signature of the Tenderer:

Lifting Operations

a. Cranes and Hoisting Equipment

Contractors shall operate and maintain cranes and hoisting equipment in accordance with manufacturer's specifications and legal requirements. Balmer Lawrie & Co Ltd Associate Services

Only Contractor Personnel trained in the use of cranes and hoists are permitted to use them.

b. Lifting Equipment and Accessories

All lifting equipment / accessories e.g., slings, chains, webbing, chain blocks, winches, jacks etc shall be indicated with their safe working load have an identification number visible on the unit and be inspected and tested in accordance with legal requirements.

Damaged equipment / accessories and equipment shall be tagged "out of use" and immediately removed from Site.

Lockout Tag out ("LOTO")

Prior to performing work on machines or equipment, the Contractor shall ensure that it is familiar with LOTO and Permit to Work procedures and that all of its affected Contractor Personnel receive the necessary training.

Barricades

Floor openings, stairwells, platforms and walkways, and trenching where a person can fall any distance shall be adequately barricaded and where necessary, well lit. Where there is a risk of injury from a fall then rigid barriers must be used.

Barricades must also be used to prevent personnel entering an area where risk of injury is high e.g., during overhead work activity or electrical testing etc. Such barricading must provide clear visual warning.

Compressed Gas Cylinders

Gas cylinder shall be securely stored and transported, and identified and used in line with the local requirements. Hose lines shall be inspected and tested for leaks in line with local requirements. Flash Back arrestor to be used to prevent any explosion due to back fire.

Electrical Safety

Prior to undertaking any work on live electrical equipment the Contractor must obtain a Permit to Work from Owner. Where ever possible live work should be avoided. Any control measures highlighted shall be implemented prior to work commencing.

The below measures will be taken:

- a) Work practices must protect against direct or indirect body contact by means of tools or materials and be suitable for work conditions and the exposed voltage level.
- b) Energized panels will be closed after normal working hours and whenever they are unattended. Temporary wiring will be de-energized when not in use.
- c) Only qualified electrical Contractor Personnel may enter substations and/or transformer and only after being specifically authorized by Owner.

Seal & Signature of the Tenderer:

Hot Works

A Permit to Work must be obtained from Owner prior to any hot works (welding, grinding, open flame work). Suitable fire extinguishing equipment shall be immediately available. Objects to be welded, cut or heated shall be moved to a designated safe location, or, if they cannot be readily moved, all movable fire hazards in the vicinity shall be taken to a safe place. Personnel working around or below the hot works shall be protected from falling or flying objects. Balmer Lawrie & Co Ltd Associate Service

Prior to the use of temporary propane or resistance heating devices approval must be obtained from Owner.

Trenching, Excavating, Drilling and Concreting

A Permit to Work must be obtained from Owner and all underground lines, equipment and electrical cables shall be identified and located prior to beginning the work. The Contractor shall assign a competent Contractor Personnel to all trenching and excavation work.

Safe means of access and egress shall be located in trench excavations. Daily inspections shall be conducted by a competent Contractor Personnel for evidence of a situation that could result in possible cave-ins, indications of failure of protective systems or other hazardous conditions.

Physical barriers shall be placed around or over trenches and excavations. Flashing light barriers shall be provided at night.

Environmental Requirements

a. Waste Management

The Contractor is responsible to remove any waste generated by the work being done on the Site. The Contractor must dispose of the waste in line with the relevant local legislative requirements. The waste disposal route shall be documented and made available for Owner to review at any time and may be subject to Owner's prior approval.

Wastes (includes rinse from washing of equipment, PPE, tools, etc) are not to be poured into sinks, drains, toilets, or storm sewers, or onto the ground. Solid or liquid wastes that are hazardous or regulated in any way are not to be disposed of in general site waste receptacles.

b. Spills

The Contractor is responsible for the provision of adequate spill kits/protection and the clean-up and disposal costs arising from such spills.

c. Emissions

The Contractor shall identify and quantify any emission sources associated with the Works. The control measures associated with these emission shall be subject to the approval of Owner's Emissions include but are not limited to noise, dust, fumes, vapours.

Seal & Signature of the Tenderer: