

(Regd. Office: 21, N.S.Road, Kolkata-700001)

**Tender Ref: BL/LC/MAN/CAP/LT/201718/0194**

**Dated: 30.11.2017**

**Due date: 14.12.2017**

**Sub: Inviting “e” bids in two bid system for Manufacture and Supply of 1 KL SS 316 Reactor as per specification at SBULC Manali – Reg...**

## 1. INTRODUCTION

Balmer Lawrie & Co Ltd. [herein after referred as BL] is a multiple product, multi location and multi technology conglomerate and manufacture of Leather Chemicals forms one of the core businesses of the company. The company invites **e-bids** for **Manufacture and Supply of SS 316 Reactor** for their Chennai plant from approved and experienced Original Equipment Manufacturers/authorized dealers of OE manufacturers with sound infrastructural, technical and financial capabilities.

**Offers from new vendors based on BL website enquiry, if any, will be considered for vendor development only, against this tender.**

## 2. TENDER QUANTITY

SS 316 Reactor of capacity 1 KL- 1 No

## 3. ITEM TECHNICAL SPECIFICATIONS

**Refer Annexure – 2**

Technical specifications given are only indicative. However, parties need to quote with maximum level of accuracy designed for the given service conditions.

## 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

- 4.1 Vendor shall have not less than five years of experience in design, fabrication and supply of SS reactors of similar or higher capacity. List of SS reactors supplied year wise with capacity details, customer name & customer contact details from Apr 2012 are to be submitted.
- 4.2 Vendor should have supplied similar kind of SS reactor to pharmaceutical /chemical plants, which must have given trouble free operation for at least 2 years. Reference from purchaser/order copies, or certification for satisfactory performance from purchaser/order copies shall be submitted
- 4.3 Vendors must have their own well developed infrastructure of fabrication, inspection, testing facilities with sufficient & experienced manpower. Details certified by full time director/authorized signatory to be submitted. In addition to the above, relevant document issued by any/applicable Govt Body, if any, shall also be submitted as documentary proof. **If required, the infrastructure of the**

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**vendor shall be inspected by BL during any stage of the tender till successful delivery of the product.**

- 4.4** Vendor should have an Annual turnover of Rs. 1 Crore and above during any one of the last three Financial years (14-15 or 15-16 or 16-17). Copy of Audited annual reports/ Profit & Loss Statements duly certified by chartered accountant has to be enclosed as proof.

Pre-qualification of the bidder shall, 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 the all the copies have to be self-attested

**Price-bids of such tenderers, who are determined to have complied with the above eligibility criteria, and duly filled up the tender document, alone will be opened.**

## **5. EARNEST MONEY DEPOSIT**

The bidder shall furnish an **EMD** for a sum of **Rs. 10,000 /-**(Rupees Ten Thousand only) along with the bid by a/c payee pay order / demand draft / irrevocable bank guarantee (as per BL format enclosed as last page of the tender) in favour of Balmer Lawrie & Co Ltd payable at Chennai. DD should be valid for the period of at least 75 days from the due date of tender. The bank guarantee (BG) shall remain in force for at least 90 days from the due date of tender and shall be extendable on request made by BL prior to expiry of the BG.

### **a. OFFERS RECEIVED WITHOUT EMD WILL BE REJECTED**

- b. For the successful bidder, the EMD will be refunded only after they submit the necessary security deposit. EMD will carry no interest.
- c. 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, his Earnest Money Deposit shall be forfeited.
- d. For the unsuccessful bidders, the EMD will be refunded only after the Purchase order has been released on the successful bidder.
- e. Linking of EMD amount with earlier transactions / adjustments with pending bills or any other amount payable by the company is not allowed.
- f. SSI UNITS WITH VALID REGISTRATION WITH NATIONAL SMALL INDUSTRIES CORPORATION LIMITED (MSME/NSIC), FOR THE ITEM/SERVICE TENDERED ARE EXEMPTED FROM PAYMENT OF EARNEST MONEY DEPOSIT.

**NOTE:** - Bidder having MSME/NSIC Registration needs to attach copy of valid Certificate applicable for the tendered product/service.

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**6. PRICE**

6.1 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's participation in the tender)**

**MANUFACTURE AND SUPPLY OF 1 KL SS 316 REACTOR AS PER SPECIFICATION - 1No**

Item	Particulars	Formula (if any)
1	Basic Price (Inclusive of P&F, Freight & Insurance) per unit	A
2a	CGST in %	B1=A* (Applicable CGST Rate in %)
2b	SGST in %	B2=A* (Applicable SGST Rate in %)
	OR	
3	IGST in %	B3=A* (Applicable IGST Rate in %)
4	Total Cost	C= SUM(A+(B1+B2) or B3)
5	Less: CGST	D= B1
6	Less: SGST	E= B2
7	Less: IGST	F= B3
8	Landed Cost	G= (C- (D+E) or F)
9	Third Party Inspection charges	Included above in basic price
10	Unloading	By BL
11	Supervision of Commissioning	Included above in basic price
12	HSN Code of the tendered item	To be provided by Vendor

**Note:**

Related Civil work, if any, for erection and erection work of the reactor, will be carried out by BL. However, supervision of commissioning and testing of the reactor is in Vendor's scope. Charges for supervision of commissioning and testing to be included in the basic price as above. No other extra charges are payable by BL

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

**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.

**6.2 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.**

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## 7. SECURITY DEPOSIT

Successful tenderer shall be required to submit within 10 days of issue of LOI / PO, SD equivalent to 5% 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, if any.

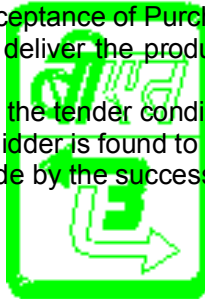
The Security Deposit paid by Pay Order/Demand Draft/Bank Transfer shall bear no interest and shall be refunded to successful bidder, only on successful delivery of the tendered item

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 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

-60% of basic with full duties and taxes: with 30 days credit from date of receipt and acceptance;

-15% of basic against erection and commissioning or within 90 days from the receipt of material, whichever is earlier.

-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.**

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**Advance Bank Guarantee/Security 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. In case of advance payment, ABG shall be submitted within 10 days from the date of LOI/PO.**

- 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 12 months from the date of commissioning or 18 months from the date of supply, whichever is earlier.
- 9.3 The warranty/guarantee shall extent to the equipment and components manufactured by you or your vendor. In case of prolonged breakdown of equipment during warranty, the warranty period shall be extended proportionately.
- 9.4 During the above period, the party shall attend/repair/rectify /replace any defects whatsoever in material, workmanship and performance and make equipment ready for normal performance.

## **10. DELIVERY**

Delivery period from the date of approval of drawing shall be mentioned clearly in the offer. Also, it is to be noted that clear detailed drawing shall be submitted for approval along with Quality Assurance Plan (QAP) within 10 days from the date of LOI/PO. BL will revert with approval, with correction if any, within 7 days.

The delivery period mentioned above is inclusive of inspection & testing/transit time. No additional time shall be given separately for inspection/testing/transportation. Hence vendor has to plan and inform BL regarding the readiness of the equipment for inspection/testing with 1 week notice period, and BL shall confirm on inspection & testing within 2 days from the inspection notice given by the vendor.

Corrections/modifications as suggested by BL during inspection & testing to be implemented by the vendor within the mutually agreed period by BL & Vendor, based on the nature of corrections/modifications suggested.

**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**

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**11. LD Clause:**

The reactor shall be delivered as per committed delivery schedule without fail. Any delay in delivery 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. INSPECTION & TESTING**

**Refer clause 3.0 of Annexure-1**

**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.

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.

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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 price bids online. **No offline price bids shall 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 (**Excluding price**). The bidder shall sign on the statements, documents, certificates, owning responsibility for their correctness/authenticity.

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## 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.		
Contact Nos. and email IDs for Balmer Lawrie helpdesk officers		
Name	E-mail	Phone Numbers
1. Mr. Manisankar(Chennai)	<a href="mailto:chikkavarapu.manisankar@c1india.com">chikkavarapu.manisankar@c1india.com</a>	+91- 8939284159/044-25946556
2. Mr. Tuhin Ghosh	<a href="mailto:tuhin.ghosh@c1india.com">tuhin.ghosh@c1india.com</a>	+91-8981165071
3. Mr. Tirtha Das	<a href="mailto:tirtha.das@c1india.com">tirtha.das@c1india.com</a>	+91-9163254290
4. Mr. Ravi Gaiwal	<a href="mailto:ravi.gaiwal@c1india.com">ravi.gaiwal@c1india.com</a>	+91-022-66865633
5. Mr. Ujjal Mitra	<a href="mailto:ujjal.mitra@c1india.com">ujjal.mitra@c1india.com</a>	+91-8986678058

## 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](http://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.

## 25. SUBMISSION OF TECHNO-COMMERCIAL 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 tender documents and furnished along with the submission of offline tender documents. BL shall not take cognizance of any deviation stipulated elsewhere in the bid. **The deviations, if mentioned, are subject to approval by BL.**

*Seal & Signature of the Tenderer:*



**Offline tender document shall comprise the following:**

1. Copy of this tender document No. **BL/LC/MAN/CAP/LT/201718/0194** duly signed & stamped on all pages by the authorized signatory as a token of acceptance of tender terms & conditions.
2. **Prequalification documents as sought in clause no. 4.0**
3. **EMD for Rs. 10,000/- as Pay Order / DD / Irrevocable BG or NSIC/SSI/MSME certificate as applicable for exemption.**
4. Duly filled specifications as sought in **Annexure-2**
5. Duly filled commercial terms as sought in **Annexure- 3**
6. Duly filled vendor details as sought in **Annexure-4**
7. Deviation sheet as per format [nil statement to be attached even if there are no deviations].
8. The sealed envelope containing all the above documents super scribing **"Unpriced Offer for – "1 KL SS 316 Reactor "**, Ref: Tender No **BL/LC/MAN/CAP/201718/0194 Due on 14.12.2017** shall be submitted as **hard copy** at the following address:

Senior Manager [SCM]  
**BALMER LAWRIE & CO. LTD.**  
SBU-Leather Chemicals  
32, Sathangadu Village, Manali,  
Chennai – 600068.

Phone : 044 – 25946543/00  
Fax : 044 – 25941156  
email:a.arun@balmerlawrie.com



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

- 26.1 **Vendors to submit their price online only, as per the indicative format as per clause 6 as sought in our e-procurement portal.**
- 26.2 **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. **Priced offers of those tenderers who fulfil the pre-qualification criteria as per clause 4.0, alone will be opened for price evaluation.** Evaluation of the price bids of **technically qualified bidders** will be done and lowest landed rate (net of GST, as applicable) shall be taken as L1 price and next lowest as L2 price and so on. 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.**

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## 28. VALIDITY OF OFFER

Your offer should be valid for our acceptance up to **90 days** from the due date of this tender (**i.e. From 14.12.2017**).

## 29. 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.

## 30. 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.

## 31. AWARD OF CONTRACT

The order will be awarded to the 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**

**Senior Manager (SCM)**

**Encl: Annexure- 1 (5 pages) – Technical Scope and Specific Conditions**  
**Annexure- 2 (4 pages) - Technical Requirements**  
**Annexure- 3 (2 pages) - Commercial Requirements**  
**Annexure- 4 (1 page) - Vendor Details**  
**Deviation Sheet Format- (1 page)**  
**BG Format for EMD (1- page)**

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**TECHNICAL SCOPE AND SPECIFIC CONDITIONS**

**1.0 Scope of supply** shall include but not be limited to the following:

- 1.1 Scope shall include fabrication, inspection, testing, packing and dispatch of 1 KL SS 316 Reactor (1 No)
- 1.2 Supplier shall submit detailed drawing of the 1 KL SS Reactor, Quality Assurance Plan (QAP), Welding procedure specification (WPS) to BL for approval within 10 days from placement of PO/LOI.
- 1.3 Procurement of all the materials whatsoever required meeting the scope of supply.
- 1.4 Supplier shall fabricate & supply the Reactor as per given specification sheet and approved drawing.
- 1.5 All welds shall be carried out by TIG method. SS welding shall have a Ferrite content of less than 1%
- 1.6 Pickling and Passivation (Weld surface cleaning) of the weld shall be carried out as per standard procedure. All inside welds shall be ground smooth.
- 1.7 Any other item / activity which is not listed here but is required to for the completion of main equipment and its various components as specified in Specification sheet and enquiry documents shall also be the responsibility and shall be included in supplier's scope of supply.
- 1.8 The Reactor shall be inspected BL/TPI as per Clause 3.0 Inspection & Testing.
- 1.9 **Hydro testing** shall be carried out **at test pressure as per ASME section VIII** and same shall be witnessed by BL as given in specification
- 1.10 Testing water shall have Chloride content not exceeding 40 ppm
- 1.11 Equipment shall be dried & thoroughly cleaned both inside & outside by blowing hot compressed Air. All water, dirt, sand, weld metal, spatter & foreign material to be removed.
- 1.12 Test gaskets shall be of similar specification as service gasket & shall be replaced by new gaskets after testing.
- 1.13 All the material to be supplied with MTC in original from reputed testing laboratories only.
- 1.14 Supplier shall submit 3 sets of all the Final – As built drawings in hard copy and one set of soft copy in DVD / CD.
- 1.15 Packing & Transportation for the delivery of the equipment is in Party's scope

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## 2.0 Material of Construction

Material of Construction shall be as per specification sheet / BL approved drawing / additional requirements as given in BL Enquiry document.

## 3.0 Inspection and Testing

3.1 The entire job of procurement of Raw material for fabrication, welding, qualification of welders and welding procedures, testing etc shall be carried out under a third party inspection agency (TPI).

3.2 Third Party to be lined up by Supplier and their Inspection charges shall be borne by Supplier only & list of 3<sup>rd</sup> Party is as below:

- M/s. Lloyds Registers Asia (LRIS)
- M/s. Bureau Veritas Industrial Services (BVIS)
- M/s. Projects & Development India LTD (PDIL)

3.3 The TPI shall include but not limited to the following

SL No.	Activity	BL Requirement
1	1) Certification of QAP & WPS 2) Raw material Identification/correlation 3) Material Testing Review. (Bought our Material test report)	Review of record and witnessing (As applicable) by TPI
2	Fabrication Process & Dimensional Check	Review of record and witnessing (As applicable) by TPI
3	DP Check of circumferential/longitudinal weld seams	Vendor to retain the test certificates & offer to TPI during final inspection
4	Inspection of NDT tests	-do-
	1) Final Hydrotest/Water Fill Test 2) Documentation & Certification and 3) Final release for dispatch	Witnessing, Review of records and issue of final release for dispatch of TPI/BL

3.4 All Raw materials shall be inspected at source by authorised inspection agency and test certificates with due identification shall be submitted. Nozzle fit up clearance will be by BL/ or its TPI

3.5 Following NDT requirements are mandatory in addition to the requirements of code/specifications:

- a) Dye penetrant test shall be carried out for the following:
- Root run and final layer of all but welds
  - Shell to bottom plate fillet welds
  - Flange to shell/dome fillet welds
  - Nozzle to shell/dome/bottom plate welds

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3.6 Spot radiography shall be applicable to all pressure welds ie., longitudinal & circumferential

3.7 Complete equipment shall be hydro tested in presence of the inspection authority. Duration of test shall be 1 hr minimum.

3.8 Running Trial test

3.9 Documentation & Certification

3.10 Final release for dispatch

#### **4.0 Fabrication**

4.1 Manufacturer of equipment shall comply in all respects with the provisions of the applicable codes/standards and specifications with respect to welding, fabrication, forming of heads, radiography, heat treatment, inspection, testing and quality control etc.,

4.2 All welding shall be carried out by qualified welders using approved procedure in compliance with the requirements of code & specification and duly certified by the inspecting authority. All Welding procedure must be got approved from authorized inspection authority before starting any fabrication job. Welding of all parts must be completed before heat treatment.

4.3 Due provisions must be kept for venting out entrapped gases during welding of pads, flanges and liner plates etc.,

4.4 All nozzle reinforcing pads shall be tested pneumatically at 0.5kg/cm<sup>2</sup>g pressure with soap solution on attachment welds

4.5 Pads for supports and external cleats etc shall be of same material as the of shell

4.6 All sharp corners shall be rounded off with smooth radius

4.7 All welding neck flanges shall be bored to suit nozzle ID. Flange facings shall have suitable serrations for gasket seatings in case of plain, male/female and raised.

4.8 Equipment shall be provided with suitable bracings/stiffeners to avoid any damage during transportation and erection at site.

4.9 All nozzles less than or equal to DN65 shall be stiffened with three equi-spaced ribs of the same material as that of shell

4.10 External bolting for gasket flanges shall always be stud bolts and nuts

#### **5.0 Cleaning & Despatch**

5.1 After water fill testing, the equipment shall be dried, thoroughly cleaned from inside and outside and shall be free from all shop dirt, loose scale, grease etc.,

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5.2 All machined surfaces, bolting and flange faces shall be properly protected from rust and mechanical injury during transit and storage

5.3 SS Name plate of Size 250 mm X 150 mm with code No. details of equipment etc shall be provided in conspicuous place.

5.3 Responsibility of transportation, packing & forwarding of equipment shall be with the supplier

5.4 All spares shall be properly packed, marked and sent separately along with equipment

### **6.0 General Conditions**

6.1 Any deviation from herein stipulated specifications and other enquiry documents shall be clearly mentioned in the offer under 'Deviations' with proper reference to clause number

6.2 In the absence of any such indication, it shall be assumed that the offer complies with all the requirements and such assumption shall be strictly binding on the party

6.3 Approval by BL for design, calculation and fabrication drawing of the equipment will not in any way absolve the party from his responsibility towards correctness of design/drawing, proper material, good workmanship and performance guarantee of the equipment.

6.4 All the revised and final drawings/document/ specifications only will be considered and for any dispute, BL's decision will be final and binding on the party.

6.5 Equipment shall be considered acceptable for dispatch only after issuance of Final inspection clearance by BL/it's TPI

However, the responsibility of party shall end only after successful performance test at site.

### **7.0 BL Scope**

Unloading of the equipment and other parts at BL factory, lifting and shifting to equipment location.

### **8.0. Commissioning**

Any defects found in the material and workmanship during the commissioning shall be rectified by the party immediately, free of cost. If required, vendor's representative shall be available at the time of commissioning at BL site and charges if any towards supervision of commissioning shall be included in the basic price.

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**9.0 Guarantee**

9.1 The party shall stand guarantee for material, workmanship and performance for a period of 12 months from the date of commissioning or 18 months from date of supply, whichever is earlier.

9.2 During the above period, the party shall attend / repair / rectify / replace any defects whatsoever in material, workmanship and performance and make the equipment ready for normal performance

**10. Time Schedule**

Complete equipment as per the above scope of supply shall be supplied along with BL's dispatch clearance, within the delivery schedule committed from the date of receipt of approved drawing from BL



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

**Technical:**

**SS 316 REACTOR OF CAPACITY 1 KL- 1 No.**

Sl.No.	Description	BL requirement	Vendor's Offer
1	<b>EQUIPMENT</b>	<b>1 KL -SS316 REACTOR</b>	
2	<b>TYPE</b>	Vertical Cylindrical; Flanged Top Dish ; Bottom- Dish end	
3	<b>APPLICABLE FOR</b>	FINISHING CHEMICALS	
4	<b>BASIC CODE</b>	ASME SEC VIII DIV I	
5	<b>SERVICE FLUID (vessel)</b>	Acrylic/Fatty Acid etc.	
6	<b>SERVICE (JACKET)</b>	: TF/STEAM/CHILLED WATER	
7	<b>DESIGN DATA</b>	SHELL / JACKET MAX. WORKING PRESSURE : 6 / 6 KG/CM2 DESIGN PRESSURE : 8/FV / 8 KG/CM2 WORKING TEMPERATURE : AMB - 120(MAX) / 5 deg C to 150 deg C DESIGN TEMPERATURE : 150 / 180 DEG C SPECIFIC GRAVITY : 1.2 (APPX) GM/CC VISCOSITY : 50 - 1000 CPS (APPX) CORROSION ALLOWANCE : 1.5mm TOTAL CAPACITY : 1.4 KL appx WORKING CAPACITY : 1 KL appx MIN AGITATING VOLUME : < 100 LIT JOINT EFFICIENCY : SHELL/DISH: 0.85/1 RADIOGRAPHY : SHELL/DISH: SPOT/FULL	
8	<b>MAJOR DIMENSIONS</b>	DIAMETER : ID 1100 MM appx STRAIGHT HEIGHT : 1320 MM appx JACKET : ID 1200 MM appx (with min 45mm gap between vessel shell and jacket)	
9	<b>THICKNESS *</b>	SHELL / JACKET : 6 MM / 10 MM SHELL TOP/BOTTOM DISH : 6 / 6 MM BAFFLES : 6 MM	

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Sl.No.	Description	BL requirement	Vendor's Offer
10	<b>BAFFLES:</b> SPACE BETWEEN SHELL WALL & BAFFLES BAFFLES WIDTH No. of BAFFLES	: 1.5% OF SHELL DIA : 90 MM * : 4 Nos	
11	<b>MATERIAL OF CONSTRUCTION</b> SHELL/TOP dish/Bottom dish JACKET NOZZLE FLANGES/ B.F.  MANHOLE NECKS MANHOLE FLANGES / B.F. BOLTS & NUTS GASKET AGITATOR BLADES AGITATOR SHAFT BAFFLES BAFFLE POSITION SUPPORTS  LANTERN STOOL	(SS 316 IN WETTED PARTS) : SS 316 : MS (IS 2062) : SHELL /JACKET: SS316 / ASTM A105 : SS 316 : SS 316 : SS 316 IN WETTED PARTS : PTFE : SS 316 : SS 316 : SS 316 : VERTICAL ON SHELL INSIDE : LUG PADS: SS 316 : LUGS : IS2062 GR.A : SS 304	
12	<b>CONSTRUCTIONAL DETAILS</b> <b>JACKET</b> MANHOLE SUPPORT TYPE PAINTING PAINTING ON JACKET	: with SPIRAL BAFFLE : SPRING BALANCE TYPE : STD LUGS : 4 NOS : INT / EXT POLISHING : 2 COATS OF EPOXY PRIMER	
13	<b>SURFACE FINISH</b> INTERNAL SS PARTS EXTERNAL SS PARTS	: MIRROR FINISH : MATT FINISH	
14	<b>AGITATOR DETAILS **</b>  DUTY IMPELLER TYPE & NO  SHAPE OF BLADES NO. OF BLADES	: SHAFT DETACHABLE & removable through manhole : GAS DISPERSION/MIXING : TURBINE - 2 sets (top& bottom- Hub mounted) : Attach indicative drawing : Pls specify as per design	

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Sl.No.	Description	BL requirement	Vendor's Offer
	DIA. OF IMPELLER SHAFT DIA X LENGTH SHAFT- IMPELLER ATTACHMENT SHAFT SEALING  IMPELLER REVOLUTION	: Pls specify as per design : Pls specify as per design : DETACHABLE  : DOUBLE MECH SEAL-with thermosyphon system (Make: EPIL/Burgmann/ Flowserve) : 140 RPM appx	
<b>15</b>	<b>GAS SPARGER** (MIRROR FINISH)</b> TYPE:  DUTY  COIL SIZE HOLE SIZE	DETACHABLE COIL WITH PERFORATION BELOW AGITATOR SUITABLE FOR UNIFORM DISPERSION : 1" SS 316 PIPE : 40% - 2mm (near entry point) ; 60% -3mm(opp to entry point) ; 45deg slanting down	
<b>16</b>	<b>MOTOR DETAILS</b> TYPE  MOTOR HP  MAKE  REDUCTION GEAR BOX (HORIZONTAL)	: FLP ; 415V ; 50Hz ; 3 PH; TEFC; IE - 2/3 : 5 HP * (Vendor to specify suitable to our process requirement) : KIRLOSKAR / CROMPTON/EQVLT : BONFIGLIOLI / ELECON / RADICON	
<b>17</b>	<b>VARIABLE FREQUENCY DRIVE</b> Make	:To be provided to handle upto 7.5 HP Load ABB/Siemens/Equivalent	
<b>18</b>	<b>FLUSH BOTTOM VALVE</b>	: To be provided - 80NB	
<b>19</b>	<b>TEST REQUIRED</b> HYDROSTATIC	<b>TEST PRESSURE</b> AS PER CODE	
<b>20</b>	<b>NOZZLE DETAILS (ANSI B16.5)</b> NOZZ SIZE THK/SHD FACE RATING N – 1 : 320 x 420NB 8THK SORF N – 2 :40NB 40S SORF # 150 N – 3 50NB 40S SORF # 150	<b>- INDICATIVE</b>  DETAILS :AS SUITABLE MANHOLE - TOP DISH : SPARE WITH BLIND FLANGE - TOP DISH  : FOR INLET - TOP DISH	

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Sl.No.	Description	BL requirement	Vendor's Offer
	N – 4 40NB 40S SORF # 150 N – 5 80NB 40S SORF # 150 N6,N7 150NB PAD TYPE # 150 (SIGHT GLASS TO BE CLUBBED WITH MANHOLE FLANGE) N – 8 40NB 40S SORF # 150 N – 9 25NB 40S SORF # 150 N10,N11 40NB 40S SORF # 150 N12,N13 25NB NPT Threaded Coupling N14 : 80NB 40S	: FOR SAFETY VALVE - TOP DISH  : FOR VENT - TOP DISH : with SIGHT/LIGHT GLASS - TOP DISH  : THERMOWELL - TOP DISH  : THERMOWELL - BOTTOM  : JACKET STEAM IN/OUT : with Plug for Vent and Drain-JACKET : with Flush Bottom Valve	
21	<b>APPROXIMATE WEIGHT</b> EMPTY : FULL OF WATER: OPERATING:	Vendor to specify Vendor to specify Vendor to specify	
22	<b>General Arrangement Drawing</b>	Vendor to submit	

**NOTE:**

- \* - Indicative only. Vendor to provide as per design suitable to meet process conditions**
- \*\* - indicative. Vendor to guarantee the mixer design also for uniform mixing.**
- Agitator and ring sparger shall be detachable and removable through manhole.**
- The Specification given above are indicative only. However, vendors can give their offer for the required specification as given above. Deviations if any from our specifications can be mentioned as per format in the deviation sheet.**
- QAP and drawing of the reactor to be approved by the BL.**
- Any bought out item to be mentioned separately and necessary certificate/drawing of the same to be submitted along with the offer.**
- Kindly contact Mrs. M Valarmathi, 044-25946563, E-mail: [valarmathi.m@balmerlawrie.com](mailto:valarmathi.m@balmerlawrie.com)/[raju.s@balmerlawrie.com](mailto:raju.s@balmerlawrie.com) for all technical related queries.**

*Seal & Signature of the Tenderer:*

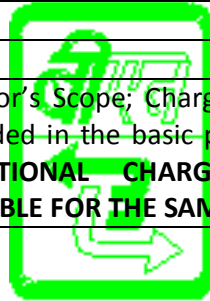
**Vendor is requested to confirm all the data provided in the table below:**  
**Commercial:**

SL No.	ITEM DESCRIPTION	BL REQUIREMENT	VENDORS OFFER
1	Validity	90 days from <b>14.12.2017</b>	
2	Delivery	Delivery period from the date of approval of drawing shall be mentioned clearly in the offer. Also, it is to be noted that clear detailed drawing shall be submitted for approval along with Quality Assurance Plan (QAP) within 10 days from the date of LOI/PO. BL will revert with approval, with correction if any, within 7 days.	
3	Guarantee Period	12 months from the date of commissioning or 18 months from the date of supply, whichever is earlier.	
4	Payment Terms	15% of basic advance against submission of Advance Bank Guarantee valid for 6 months or valid for the delivery period whichever is later; 60% of basic with full duties and taxes: with 30 days credit from date of receipt and acceptance; 15% of basic against commissioning or within 90 days from the receipt of material whichever is earlier; Balance 10% of basic against PBG valid for one year extended further by 3 months Or after one year of retention period.	

***Seal & Signature of the Tenderer:***



SL No.	ITEM DESCRIPTION	BL REQUIREMENT	VENDORS OFFER
5	Packing and Forwarding	To be included in the basic price	
6	Taxes & Duties		
a	GST (Chapter ID / HSN code of the tendered item to be mentioned)	To be Specified by Vendor	
b	GST rate %	To be Specified by Vendor	
7	Transit Insurance	To be included in the basic price	
8	Transportation	To be included in the basic price	
9	Third Party Inspection Charges	To be included in the basic price	
10	Unloading	By BL	
11	Civil work for erection	By BL	
12	Erection	By BL	
13	Supervision of Commissioning and Testing	Vendor's Scope; Charges to be included in the basic price. <b>NO ADDITIONAL CHARGES ARE PAYABLE FOR THE SAME</b>	



*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, under category SC/ST?	
13.	Contact Person	
14.	Inco terms	
15.	Taxes applicable	
16.	PAN no*	
17.	State code (as per GST)	
18.	GSTIN Registration number*	
19.	Proof of GSTIN Registration number per state (From GSTN website)*	
20.	Vendor's GSP name (GST Suvidha Provider's)	

**\* - relevant registration/certificate copies & statutory documents as per GST requirements shall be submitted.**

***Seal & Signature of the Tenderer:***

**DEVIATION SHEET**

Clause No. of the Tender	Tender Requirements	Deviation
		

*Seal & Signature of the Tenderer:*

Proforma of the Guarantee  
(Bid Bond / Earnest Money Deposit)

Lawrie & Co. Ltd.

Whereas ..... (Name of the bidder) (hereinafter called "the Bidder") has submitted its bid for the ..... (purpose) (hereinafter called "the Bid") against Tender reference No: ..... dated ..... of M/S BALMER LAWRIE & CO. LTD. (Address- Local).

The conditions of Tender provide that the Bidder shall pay a sum of Rs. .... (Rupees ..... only) (hereinafter called "the said amount") as full Earnest Money Deposit in the forms (herein mentioned). The forms of payment of Earnest Money Deposit include guarantee to be executed by a Scheduled Bank.

The said ..... (name and address of the Bidder) have approached us and at their request and in considerations of the premises we, ..... (Name of the Bank) having our office at ..... (address of the Bank) have agreed to give such guarantee as herein after mentioned.

Know All Men by these presents We, ..... (name of the bank) of ..... (address of the bank) having our office, inter alia, at ..... (hereinafter called "the Bank") are bound unto BALMER LAWRIE & CO. LTD. .... (address) (hereinafter called "the Purchaser") in the sum of Rs ..... (Rupees ..... only) for which payment will truly be made to the Purchaser, the Bank binds itself, its successors and assigns by these presents this ... day of ...., 1999.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder on the bid form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
  - a) fails or refuses to execute the Contract Form if required; or
  - b) fails or refuses to furnish the Performance Security, in accordance with the instructions to Bidders.

We undertake to pay the Purchaser up to the said amount upon receipt of its first written demand, without the Purchaser having to substantiate their demand, provided that in their demand the Purchaser shall mention that the amount claimed by them is due owing to the occurrence of one or both of the two conditions.

This guarantee will remain in force upto ..... (date of expiry) including the ..... days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

Notwithstanding anything contained herein:

- i) Our liability under the Bank Guarantee shall not exceed Rs. .... (Rupees ..... only.)
- ii) This Bank Guarantee shall be valid upto .....
- iii) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if you serve upon us a written claim or demand on or before ..... (last date of validity)

We, ..... (name of the Bank) undertake not to revoke this guarantee during its currency except with your previous consent in writing.

We have power to issue this guarantee in your favour under our Memorandum and Articles of Association and the undersigned has full power to do and execute this Guarantee under the Power of Attorney dated ..... day of ..... , 1999 granted to him by the Bank.

Yours faithfully,

..... (Signature of Bank)