

# **TENDER DOCUMENT**

## **SUPPLY & INSTALLATION OF AUTOMATIC ONLINE CHEMICAL DOZING SYSTEM FOR HLL CDM AT IFC**

**HLL LIFECARE LIMITED,  
CENTRAL ENGINEERING DIVISION  
PEROORKADA FACTORY,  
THIRUVANANTHAPURAM – 695 005,  
KERALA, INDIA.  
Phn: 0471 – 2437270, 2433374**

**IFB No. : HLL/CED/IFC/ACD /2015-16**

**DATE : 22-08-2015**

**HLL LIFECARE LIMITED**  
**(A Government of India Enterprise)**  
**Central Engineering Division,**  
**Peroorkada. P.O,**  
**Thiruvananthapuram – 695005,**  
**Kerala, India**  
**Phn: 0471 – 2437270, 2433374**

**INVITATION FOR BIDS (IFB)**

**IFB No** : **HLL/CED/IFC/ ACD /2015**  
**Date** : **22-08-2015**

HLL Lifecare Limited (HLL) sealed and super scribed bids are invited from competent and experienced Suppliers/Contractors who are capable to do the following work meeting the requirements as per our tender.

SI. No	Brief Description of Item/Work	Qty	EMD in Rs
1	Supply & Installation of Automatic Online Chemical Dosing System as per tender specifications at HLL, IFC, Irapuram, Kochi.	As per Schedule IV	Rs 5,000/-

2. The bid documents will be available up to 15.00 Hrs. on the previous working day of the opening of the bids. The scheduled date for issue, receipt and opening of bids is as follows.

- a) Date of issue of tender document - 22-08-2015 onwards
- b) Last date and time for receipt of bids - 04-09-2015 up to 15.00 Hrs.
- c) Date and time of opening of bids - 04-09-2015, 15.30 Hrs.
- d) Address for communication, receipt and place of opening of bids:

Associate Vice President (CED)  
Central Engineering Division,  
HLL Lifecare Limited (A Government of India Enterprise),  
PB No 2, Peroorkada, Thiruvananthapuram – 695005,  
Kerala State, India  
Ph: (++91 471) 2433374,2437270 –501,502,503  
E-mail: srnair@lifecarehll.com, rajeevrv@lifecarehll.com  
krknair@lifecarehll.com

3. The completed and sealed bid documents should be submitted to **Associate Vice President (CED)**, in the above address along with the EMD. The outer cover should bear the Enquiry No, closing date and General description of item tendered, and the words “DO NOT OPEN BEFORE” 15.30 Hrs (IST) on ----- (Indicate the Closing Date). EMD shall be submitted in the form of demand draft drawn from a nationalized bank in favour of HLL Lifecare Limited payable at Thiruvananthapuram.

Bids received after due date and time will be rejected. Any bid not accompanied by EMD will be rejected.

4. Bids will be opened in the presence of Bidders representative(s) who choose to attend on the specified date and time, at the office of HLL at the address given in Clause 2 (d) above.
5. In the event of the date specified for bid receipt and opening being declared as a closed holiday for the above purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
6. HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
7. HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by Telex/Fax/Telegraph will not be accepted.
8. The EMD should be enclosed in a separate envelope and super scribed as "EMD" and to be attached in the main cover.
9. SSI units interested in availing exemption from payment of EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC.
10. The company reserves the right to club or split the items of works, change the qualifying criteria at their discretion and to reject or cancel the Invitation for bids without assigning any reason thereof.
11. In addition to the invitation for bids, the bidding documents include the following schedules.

SCHEDULE	- I	:	Conditions of Bid
SCHEDULE	- II	:	Detailed Specification of Item
SCHEDULE	- III	:	Conditions of Contract
SCHEDULE	- IV	:	Acceptance Form
SCHEDULE	- V	:	Format of Quoting

**ASSOCIATE VICE PRESIDENT (CENTRAL ENGINEERING DIVISION)**

**SCHEDULE I**  
**CONDITIONS OF BID**

**1. Definitions**

- a. **“Invitation For Bid”** shall mean and include the present document, and such other complements and agenda, which may subsequently be issued in this connection.
- b. **“Purchaser/Owner”** shall mean HLL Lifecare Limited, Irapuram or its units thereof.
- c. **“Bidder”** shall mean the person, firm or Corporation submitting a bid against this invitation for bid and shall also include his agents and representatives.
- d. **“Supplier/Contractor”** shall mean the bidder whose bid has been accepted and shall also include his successors and assigns, agents and representatives.
- e. **“Contract”** means signed acceptance of the Letter of Intend, if issued, and order by the supplier.
- f. **“Site”** shall mean **HLL Lifecare Limited, Irapuram Factory, Ernakulam(Dist.) – Kerala**

**2. Bid Information and Period of Validity**

2.1 The Bid must include the following information,

- a. Enquiry / IFB No.
- b. Promised Delivery Schedule for each item/work.
- c. Certificate that bid is in total conformity with the specifications and terms and conditions mentioned in the bid document and if not, list of exclusions, and/or exceptions.
- d. All information requested in the specifications, dimensional drawings, technical literature describing the make offered, material etc., as specified in the bid document.
- e. EMD
- f. The Price should be quoted as per the following:
  - i) The Bidder shall indicate all prices including basic price, the relevant duties and taxes, other levies, packing & forwarding charges, charges for inland transportation and other local costs incidental to delivery of the goods to supplier’s site, etc. on the appropriate price schedule (FORMAT FOR QUOTING – SCHEDULE IV) attached to these documents for completing the above work as per the Specification, Terms and Conditions as specified in the Bid Documents. Civil work is excluded from the scope of the supplier.
  - ii) Bidder must quote for unit price and total price based on the requirement shown in the bid document.
  - iii) Price should be firm without any escalation on any account until the order is completely fulfilled.
  - iv) All other documents/certificate/information as specified in the bid document.

- 2.2 Bids shall remain valid for **90 days** after the date of bid opening prescribed by the Purchaser.

### **3. Format and Signing of Bid**

- 3.1 All pages of the bid, except for un-amended printed literature shall be signed by the person or persons signing the bid.
- 3.2 Bids shall be made in English.
- 3.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be signed by the person or persons signing the bid.

### **4. Submission of Bids**

#### **Sealing and Marking of Bids**

- 4.1 The bids should be submitted in duplicate. The Bidder shall seal the original and each copy of the bid in an inner and then in an outer envelope, duly marked the envelopes as "original" and "copy".
- 4.2 The inner and outer envelopes shall be:

- (a) Addressed to the Purchaser in the following address,

**Associate Vice President (CED),**

HLL Lifecare Limited

Central Engineering Division,

Peroorkada. PO, Thiruvananthapuram – 695005,

Kerala, India

Phn: 0471 – 2437270, 2433374

E-mail: [srnair@lifecarehll.com](mailto:srnair@lifecarehll.com), [rajeevrv@lifecarehll.com](mailto:rajeevrv@lifecarehll.com)

[krknair@lifecarehll.com](mailto:krknair@lifecarehll.com)

- (b) Bear the Enquiry No, closing date and General description of item tendered, and the words "DO NOT OPEN BEFORE" 15.30 Hrs (IST) on ----- (Indicate the Closing Date).

- 4.3 The inner envelopes shall indicate the name and address of the Bidder. If the outer envelope is not sealed and marked as indicated above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.
- 4.4 Bids should be hand delivered or sent by courier to ensure timely arrival. Telex, cable, e-mail or facsimile bids will be rejected.

#### **Deadline for submission of Bids**

- 4.5 The bids will be received by the Purchaser in the above given address (4.2.a) not later than the date and time specified in the Invitation for Bids.

In the event of the specified date for submission of Bids being declared a holiday for the Purchaser, the bids will be received up to the appointed time on the next working day.

- 4.6 The purchaser may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- 4.7 It is the responsibility of the bidders to see that the completed bidding documents whether sent by post or by courier or by person are received in the office of **Associate Vice President (CED)**, in the above address by the date and time stipulated for receipt as above failing which the bid would be considered late and rejected. Purchaser will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids received after due date and time will be rejected. Mere handing over of the bid documents at reception counter or at any other counter or room or person cannot be considered as submission of bid.

## **5. Clarification of Bidding Documents**

A prospective Bidder requiring any clarification of the Bidding Documents may notify the Purchaser in writing, or by fax at the purchasers mailing address indicated in the Invitation for Bids. The Purchaser will respond in writing to any request for clarification of Bidding Documents, which it receives not later than 7 days prior to the deadline for submission of Bids prescribed by the Purchaser.

## **6. Amendment of Bidding Documents**

- 6.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, modify the Bidding Documents by amendment.
- 6.2 The amendment will be notified in writing or fax or telegram or e-mail to all prospective Bidders, which have received the Bidding Documents and will be binding on them.
- 6.3 In order to afford prospective Bidders reasonable time in which to take the amendment in to account in preparing their bid, the Purchaser may, at its discretion, extend the deadline for the submission of bids.

## **7. Bid Opening by Purchaser**

- 7.1 The Purchaser will open bids, in the presence of the bidders' representatives who choose to attend, at the date and time specified and in the location given in this document. The Bidders' representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.

- 7.2 The Bidders' names, the presence or absence of the requisite EMD and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the opening.
- 7.3 The Purchaser will prepare appropriate bid opening register and the same shall be signed by bidders present during the opening of the bids and Purchaser.

## **8. Clarification of bids**

To assist in the examination, evaluation and comparison of bids, the purchaser may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

## **9. Preliminary examination**

- 9.1 The purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required EMD has been furnished, whether the documents have been properly signed, whether the bid validity is as required and whether the bids are generally in order.
- 9.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be calculated. If there is a discrepancy between the words and figures, the amount in words shall prevail.
- 9.3 Prior to the detailed evaluation, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one that conforms to specifications and all the terms and conditions of the bidding documents without material deviation. The purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 9.4 A bid determined as not substantially responsive will be rejected by the purchaser and may not subsequently be made responsive by the bidder by correction of the non-conformity.
- 9.5 The purchaser may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.
- 9.6 The purchaser's determination as to the substantial responsiveness or otherwise of each bid or consideration of a minor informality or non-conformity or irregularity is final and conclusive.

## **10. Evaluation and comparison of bids.**

- 10.1 The purchaser will technically evaluate all bids previously determined to be responsive and compare the bids previously determined to be substantially responsive and technically acceptable.

## **11. Post – qualification**

- 11.1 Notwithstanding the qualification requirements given in this document, the Purchaser will determine to its satisfaction whether the Bidder selected as having submitted the lowest evaluated responsive bid is qualified to satisfactorily perform the Contract.
- 11.2 The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate.
- 11.3 The Purchaser reserves the right to negotiate with the lowest evaluated responsive bidder.
- 11.4 An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Purchaser will proceed to the next lowest evaluated bid to make a similar determination of that bidder's capabilities to perform satisfactorily.
- 11.5 Conditional Bids shall not be entertained.

## **12. Award Criteria**

The Purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily for the items offered.

## **13. Notification of Award**

- 13.1 Prior to the expiration of the period of bid validity, the purchaser will notify the successful Bidder in writing by post or by cable or telex or fax, to be confirmed in writing by post, that its bid has been accepted. The notification of award may be sent in the form of Letter of Intend / Work order.
- 13.2 The signed acceptance of the notification of award by the Supplier/Contractor will constitute a concluded contract.

## **14. Earnest Money**

- 14.1 Each bid must be accompanied by E.M.D.
- 14.2 The EMD is required to protect the Purchaser against risk of Bidder's conduct, which would warrant the security's forfeiture
  - a. The EMD shall be denominated in Indian Rupees and shall be in the form of cash deposit or demand draft from a nationalized bank drawn in favour of HLL Lifecare Limited payable at Thiruvananthapuram.



- b. E.M.D of the unsuccessful bidders will be released after tabulating tenders, keeping only the earnest money of the first three lowest bidders.
- c. E.M.D of the remaining two unsuccessful bidders will be released after the acceptance of the notification of award by the successful bidder.
- d. In the case of successful bidder, the Earnest Money will be returned after the satisfactory completion of the work and acceptance of item/work by HLL.

14.3 The EMD may be forfeited:

- (a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Document; or
- (b) If the Bidder fails to sign the Contract / Work order, in the case of successful Bidder.

## **SCHEDULE II**

### **DETAILED SPECIFICATION OF ITEM**

#### **Requirement:**

HLL require an Automatic Online Chemical Dosing System for Leaching Tank as per drawing no.HLL-CED-S-026-00 and specifications for Condom Dipping Machines at our factory in Irapuram, Kochin.

#### **Technical Data and Specification**

Item : Intermediate Silica Collection System  
Quantity : 1No.  
Drawing no. : HLL-CED-S-026-00

#### **GENERAL CONDITIONS**

- 1) Given specification are indicative only. The supplier should visit the HLL Site at Irapuram Factory and see the machines and also take their own assessments before quoting of bids. Prior permission from HLL shall be taken for visiting the plant. No photographs will be allowed inside the plant. The purchaser will not be responsible for any wrong quotes due to inadequate information.
- 2) The supplier should submit 3 copies of the following documents relevant to his scope of work, two weeks prior to the commissioning of the unit, free of cost.
  1. Instruction/Testing/Operation manual (3 copies)
  2. Maintenance manual/Lubrication Chart (3 copies)
  3. All final drawings - Electrical, mechanical and civil (3 copies)
  4. Relevant Test Certificates, Guarantee Certificate for each item of equipment.
  5. Catalogue and literature on bought outs (3 copies)
  6. Any other related documents
- 3) The item should be complete with all accessories and interconnections.
- 4) The bidder should attach to their bid detailed specifications, catalogues and other details of all the items quoted by them.
- 5) Calibration certificates with traceability to National Standards shall be supplied for all the instruments coming under the scope of supply of supplier.
- 6) The supplier should submit necessary test certificates as per relevant standards of material used, free of cost.
- 7) The suppliers should submit the following documents, relevant to their scope of work, two weeks prior to the commissioning of the Unit :
  - a) All final drawings

- b) Relevant Test Certificates, Guarantee Certificate for each material which are using for fabrication.
  - c) Any other related documents
- 8) Any deviations from the bid documents shall be clearly indicated.
- 9) The bid should be complete with all the relevant details.

## **SCHEDULE III**

### **CONDITIONS OF CONTRACT**

#### **1. Price**

The price quoted should be inclusive of Basic Price, all applicable taxes and duties including VAT, Entry tax, Octroi & other levies, P&F charges, insurance charges etc for supply of items FOR HLL site. The Supplier should pay entry taxes, as applicable and should be included in the offer.

Price quoted should be firm without any escalation till the order is completely executed.

#### **2. Taxes/Duties/Levies**

The supplier/contractor shall be entirely responsible for all taxes including entry tax, duties, license fees, etc. incurred until successful completion of contract. All central, state, municipal taxes, duties and levies payable shall be shown by the bidder separately in the Bid. The Purchaser will issue necessary 'C' Form, if required.

#### **Note:**

The term 'Machine' means the final and complete equipment/machinery as ordered and does not mean raw material, components, consumable, etc. required for the work. The Purchaser shall not be liable to pay any tax/duty/levy incurred during the transactions between the Supplier and his sub-suppliers and or Agents.

#### **3. Insurance**

The supplier shall arrange insurance coverage for transit, storage and erection.

#### **4. Delivery/Completion Period**

The supply & installation should be completed within **2 WEEKS** from the date of Letter Of Intent or Work Order.

Time being the essence of the Contract, the delivery, stipulated should be strictly adhered to. Delay in delivery/non delivery of the equipment will cause loss and/or damage to Purchaser. The delivery period shall be counted from the date of sending of Purchaser's intimation of acceptance of the Supplier's offer (Letter of Intent (LOI) and/or order).

#### **5. Terms Of Payment**

The payment terms offered are as follows: -

- a) 90% of the total value of the work will be paid against successful completion of the entire work duly certified the Engineer-in –charge.

- b) Balance 10% of the value of the equipment/s will be paid against a Performance Bank Guarantee (from a nationalized bank) equal to 10% of the total contract value valid for the guarantee period of one year.

Tax Deduction: All statutory deductions like Income Tax or any other government-imposed liabilities shall be borne by the Supplier/Contractor (as applicable at the time of execution of job) and shall be deducted from each bill submitted by the Supplier/Contractor.

## **6. Guarantee Period**

The Guarantee against any possible manufacturing defects shall be given for a period of 18 months from the date of supply and acceptance of the items at HLL site or 12 months from the date of installation, whichever is earlier.

## **7. Liquidated damages for delays**

If the equipment is not supplied to the purchaser within the time stipulated in the Order, Purchaser may at their option, either (1) recover from the Supplier/Contractor liquidated damages at the rate of 0.5 % of the total contract value for every week of delay, subject to a maximum of 7.5 % of the total contract value, or (2) at the risk and cost of the Supplier and without prejudice to the other remedies/rights as per the Contract, terminate the order wholly or partially and complete it themselves or reassign it to other Suppliers/Contractors.

## **8. Inspection And Testing**

Purchaser shall have the right of access to the Supplier's/Contractor's works at all reasonable times to inspect and measure the progress of execution of the Order. The Supplier/Contractor should make available all tools, instruments, apparatus, equipment, facilities, services and materials to enable the Purchaser's nominee to carryout such inspection/tests without obligations. Notwithstanding such tests/inspection conducted at the Supplier's works from time to time, goods under the Order shall not be dispatched unless they have been finally inspected by the purchaser or inspection waived and dispatch specifically authorized in writing, wherever inspection during various stages of execution of the order and prior to dispatch are specifically provided for in the order, sufficient advance notice shall be given to the purchaser for the purpose, and as a consequence of such inspection, if necessary, the Supplier shall arrange re-work at his own cost. Not withstanding any such inspection/tests carried out at Supplier's works, the equipment shall be accepted only after receipt and successful commissioning at the site and the inspection/tests carried out at Supplier's works will not relieve his contractual obligations for conforming to the specifications under the Order.

## **9. Performance Guarantee**

The Supplier shall fully guarantee all of the equipment supplied to perform in accordance with the specifications and to be free of all defects in design, material and workmanship. Should any equipment not performing as intended or should the design, material or workmanship prove defective within a period of 12 months from the date of successful commissioning, the equipment shall, upon notification of deficiency or defect, be promptly corrected by the Supplier to the satisfaction of Purchaser without delay and at

no extra cost. If the Supplier fails to take proper corrective action to replace or repair the deficiency within a reasonable time of Purchaser's notification to this effect, the Purchaser shall be free to take such corrective action at the Supplier's risk and cost.

#### **10. Scope of Services, Supplies and Materials:**

The scope will include all services, supplies etc. for the satisfactory execution of the Contract except in so far as any of those are expressly excluded.

#### **11. Force Majeure**

- a. Neither the Supplier nor the Purchaser shall be considered in default in the performance of their obligations as per the Contract so long as such performance is prevented or delayed because of strikes, war, hostilities, revolution, civil commotion, epidemics, accidents, fire, cyclone, flood or because of any law and order proclamation, regulation or ordinance of Government or subdivision thereof or because of any act of God. The proof of existence of force majeure shall be provided by the party claiming it to the satisfaction of the other.
- b. The Supplier shall advise Purchaser initially by a Fax, followed by post, the beginning and end of any of the above causes of delay, failing which Purchaser shall not be liable to consider delays due to the above reasons. Notice as stated above should be given even in case where only the Supplier's bids are under the consideration of the Purchaser and no acceptance of the same has been given and detailed order issued.
- c. In the event of definite delay even if arising out of reasons due to force majeure, Purchaser shall have the right at their discretion to cancel the Order or part of the Order without any liability on their part to make any payment to the Supplier while reserving the right to claim refund of and any payment if advanced or paid to Supplier.

#### **12. Assignment And Subletting**

No assignment and subletting of whole or part of the order shall be permitted except with prior approval of purchase obtained in writing.

#### **13. Correspondence**

All correspondence relating to this enquiry shall be in English, to:

**Associate Vice President (CED),**  
HLL Lifecare Limited  
Central Engineering Division,  
Peroorkada. PO, Thiruvananthapuram – 695005,  
Kerala, India  
Phn: 0471 – 2437270, 2433374  
E-mail: srnair@lifecarehll.com, rajeevrv@lifecarehll.com  
krknair@lifecarehll.com

#### **14. Indemnification Clause**

The Supplier shall indemnify and hold harmless the Purchaser from and against all claims, liability, loss damage or expense, including counsel fees arising from or by reason of any actual or claimed trade mark, patent or copy right infringement or any litigation based thereon with respect to any part of the items covered by the Contract, and such obligations shall survive acceptance of payment for the items.

#### **15. Entirety of the Agreement**

All of the terms agreed to between the Supplier and Purchaser will be included in the Purchase/work Order/Contract and no their communication, proposal or understanding, written, oral or implied, will be considered to be included in the Purchase/work Order/Contract or form part of the Contract between the Supplier and Purchaser unless specifically agreed to in that behalf in writing between Purchaser and Supplier.

#### **16. Settlement Of Disputes**

Arbitration shall not be a means of settlement of any dispute or claim arising out of the contract relating to the work. Any disputes or difference arising between the parties with respect to the performance of any part of this agreement or any thing connected therewith, etc shall as far as possible be mutually settled by the process of dialog and negotiation.

The Courts at Thiruvananthapuram alone shall have jurisdiction in respect of settlement of any matter arising out or in connection with the contract.

**SCHEDULE IV**  
**ACCEPTANCE FORM**

*(To be submitted in the letter head of the firm indicating full name and address, telephone & fax numbers etc.*

Date :

From

To

**Associate Vice President (CED),**  
HLL Lifecare Limited  
Central Engineering Division,  
Peroorkada. PO,  
Thiruvananthapuram – 695005,  
Kerala, India  
Phn: 0471 – 2437270, 2433374  
E-mail: srnair@lifecarehll.com, rajeevrv@lifecarehll.com  
harikrishnankp@lifecarehll.com

Dear Sir,

I / We, hereby offer to design/fabricate/supply/commission as detailed in schedule hereto or such portion thereof as you may specify in the acceptance of Bid at the price given in the price schedule and agree to hold this offer open till 90 days after the date of bid opening prescribed by the purchaser. I/We have understood the terms and conditions mentioned in the invitation for bid and Conditions of Contract furnished by you and have thoroughly examined the specifications in the bid document hereto and are fully aware of the nature of the scope of work required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above.

Yours faithfully,

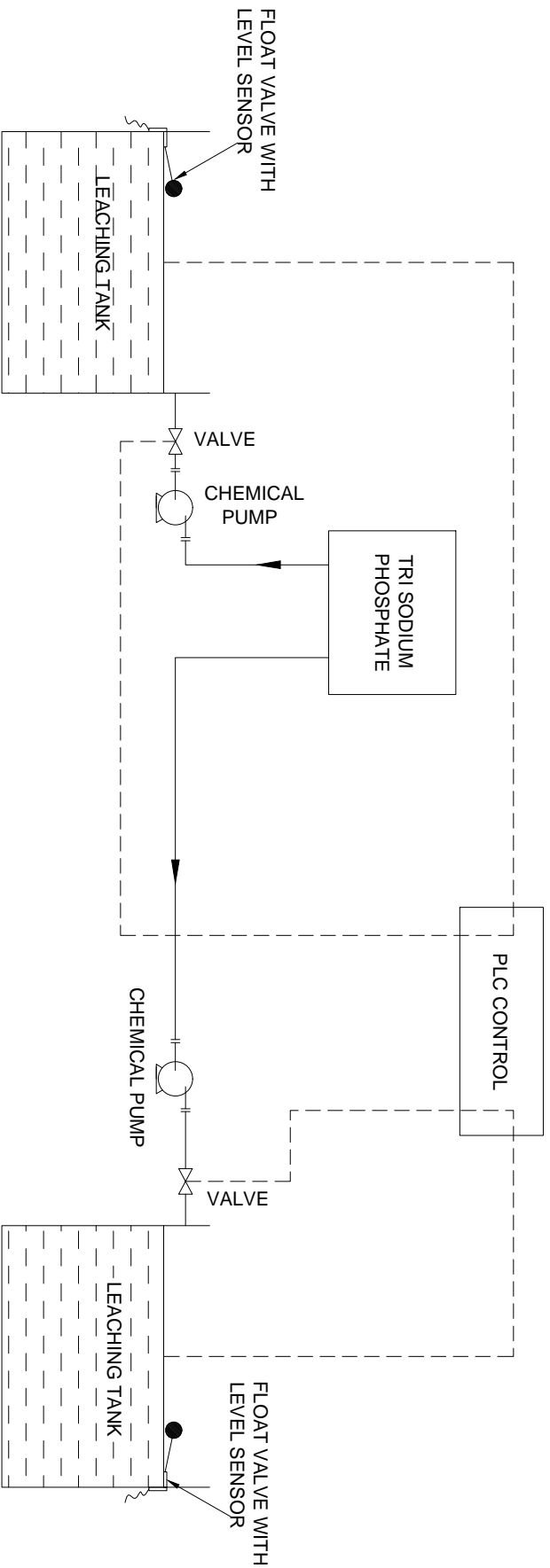
**SIGNATURE OF THE BIDDER**



**SCHEDULE V**  
**FORMAT FOR QUOTING**

Sub: Providing Automatic Online Chemical Dosing System for HLL CDM at IFC					
SI No	Item/Work Description	Unit	Quantity	Rate in Rs	Amount in Rs
1	Supply & Installation of SS pipes (SS316) with necessary fittings as per drawing and specifications for the following sizes				
a)	25mm seamless SS 316 pipe	MTRS	10.00		
b)	25mm SS Flange (threaded)	Nos.	2.00		
c)	25mm SS Ball Valve(Make : Minerva/Audco/GG)	Nos.	2.00		
d)	25 mm SS nipple	Nos.	2.00		
e)	40mm motorised drain valve	Nos.	2.00		
2	Fabrication & fixing of structural platform using the following SS materials				
a)	50/38 mm SS square tube(Material will be supplied by HLL)	MTRS	50.00		
b)	Supply & Installation of 4mm thick MS chequered plate including painting with one coat synchromite primer & two coat enamel paint of approved quality.	KG	130.00		
3	Supply & Installation of SS Tank as per drawing				
a)	SS Tank having size-1000mmX1000mmX1000mmx2mm(L x W x H x T )	Nos.	1.00		
4	Supply,Fabrication & fixing of MS Angle (40x40x4mm)supports including painting with one coat synchromite primer & two coat enamel paint of approved quality.	Kg	25.00		
5	Supply & Installation of GI U-clamps with nut,bolt,washer etc. complete for pipe line				
a)	For 75mm PVC pipes	Nos.	10.00		
b)	For 50 mm SS pipes	Nos.	10.00		
c)	For 25mm SS pipes	Nos.	10.00		
6	Supply & installation of Chemical dosing pump for TSP(Tri Sodium Phosphate) , Ammonia application , <b>Geared Motor Spec:</b> Rating : 0.25 Kw , 3-ph . Direct Drive Geared motor , Motor speed : 1500 RPM , Output : 2 kg/m <sup>2</sup> Make:Bolfiglioli/Sumitomo, Power Input : 3 Phase AC , 50 Hz 440 V Enclosure : IP 66 Dut class : S1 Temperature class : F Cooling : Fan cooled Factor of Safety : >1.5 Surface and corrosive protection : OKS-S(corrosive category : C3), Efficiency class : IE 1. <b>Specification of Pump</b> Type:Chemical pump, Discharge :40m3/hr Head : 10mtr MOC : SS316 Application : Trisodium Phosphate Speed :1500RPM Suction : 1 1/2" Delivery : 1"	Nos.	2.00		
7	Supply and Installation of Solenoid Valve with accessories				
a)	Solenoid valve (5/2) with 6" PU tube(50 Mtrs) with suitable connectors, Tee connectors.As per relevent IS/IEC Standards with test and calibration certificates	Set	4.00		

<b>8</b>	<b>Supply and Installation of Level sensors</b>				
a)	Ultrasonic level sensors for TSP(Tri sodium phosphate),Ammonia applicationAs per IS/IEC 60947-5-2 , level should be indicated digitally.	Nos.	1.00		
<b>9</b>	<b>Supply and Installation of PLC</b>				
a)	PLC for dosing application(10 bit PLC 5/5 I/O)As per IS/IEC 61131-3/IEC 61499/IEC 61508	Set	1.00		
<b>10</b>	<b>Supply and Installation of Panel board Panel wiring should be as per IS 732 &amp; Earthing of Panel should be as per IS 3043/IEC 60364 , Panel should be as per IS 8437(Part 1&amp;2) / IEC 60479-1&amp;2 , IS 60529/IEC 60529 , IS 9409/IEC 61140 ,IS 9676, IS 5216 with Test Certificates)</b>				
a)	Panel Board with size 600x600x210 mm with 2 mm Powder Coated CRCA Sheet.	Set	1.00		
<b>11</b>	<b>Supply and Installaion of MCCBAS per IS 13032 , IS 13947/IEC 60947-5-2 , IS 9409/IEC 61140 , IS 8623 (part 1 to 3)/IEC 60439(1to 3), IS 8504/IEC 60216-4-2 , IS 60715/IEC 60715 ,IS 60898/IEC 60898 , IS 60947(Part 1&amp;2)/IEC 60947, IS 10118(Part 1 to 4) , IS 60529/IEC 60529 , IS 9676 with test certificates.</b>				
a)	63 A , 3 Pole 450 V MCB	Nos.	1.00		
<b>12</b>	<b>Supply and Installation of MCB(As per IS 13032 , IS 13947/IEC 60947-5-2 , IS 9409/IEC 61140 , IS 8623 (part 1 to 3)/IEC 60439(1to 3), IS 8504/IEC 60216-4-2 , IS 60715/IEC 60715 ,IS 60898/IEC 60898 , IS 60947(Part 1&amp;2)/IEC 60947, IS 10118(Part 1 to 4) , IS 60529/IEC 60529 , IS 9676 with test certificates</b>				
a)	10 A ,3 Pole ,415 V MCB	Nos.	2.00		
<b>13</b>	<b>6A , 2pole , 230 V MCB</b>	Nos.	2.00		
<b>14</b>	<b>Supply and Installation of online-starters As per IS 60947(Part 4 &amp; Section 2)/ IEC 60947-4-1 &amp; 2 Standards with Test Certificate</b>				
a)	0-4 A , 3 Pole 415 V ( 1HP)	Nos.	1.00		
<b>15</b>	<b>Supply and Installation of TimerAs per relevent IS/IEC Standards with test and cslibration certificates</b>				
a)	Digital Timer(programmable type, 0-20minutes)	Nos.	2.00		
<b>16</b>	<b>Supply and Installation of Power Supply( 24 V DC) sourceAs per IEC 61850-3/IEC 60950-1with Test &amp; Calibration Certificates</b>				
a)	Power Supply( 24 V DC) source	Nos.	1.00		
<b>17</b>	<b>Supply of motorised flow valves with size 2" As per relevent IS/IEC standards</b>	Nos.	4.00		
<b>BASIC PRICE</b>					
<b>SERVICE TAXES &amp; OTHER TAXES IF ANY</b>					
<b>GROSS AMOUNT IN RS. (INCLUDING TAXES)</b>					
<b>( IN WORDS)</b>					
I agree to execute the works as per schedule, at the rates quoted by me as above					
<b>SIGNATURE OF THE CONTRACTOR</b>					



## CHEMICAL DOSSING SYSTEM

MATERIAL:			<b>HLL Lifecare Limited.</b>		NO.OFF:
DRAWN BY:	RAJKIRAN.D	<b>Thiruvananthapuram-5</b>			
CHECKED BY:		TITLE:-			
APPROVED BY:		<b>CHEMICAL DOSSING SYSTEM</b>			
DATE:	22-8-2015			Drg .no:-HLL-CED-S-026-00 SHEET.NO:-1 OFF. 1	
SCALE:					
ALL DIMENSIONS ARE IN M.M					