

**HLL LIFECARE LTD  
(A Government of India Enterprise)  
CENTRAL ENGINEERING DIVISION  
P.B.NO.2, PEROORKADA P.O.,  
THIRUVANANTHAPURAM - 695  
005 KERALA, INDIA**

**INVITATION FOR BIDS (IFB)  
(TECHNICAL & PRICE BIDS)**

**FOR**

**SUPPLY,INSTALLATION ,TESTING AND  
COMMISSIONING OF CONTROL PANEL  
BOARD INCLUDING MACHINE WIRING ,  
EARTHING , ILLUMINATION AND  
INSTALLATION OF CONTROLS FOR  
CONDOM DIPPING MACHINE AT OUR  
FACTORY IN KANAGALA  
,BELGAUM,KARNATAKA.**

**IFB No.: HLL/CED/CON-AUG/SITC/PANEL BOARD/WIRING/BTADLCDM/KFB/2013-14**

**DATE : 28.02.2014**

**HLL LIFECARE LIMITED  
(A Government of India Enterprise)  
CENTRAL ENGINEERING DIVISION  
THIRUVANANTHAPURAM-695 005**

**INVITATION FOR BIDS (IFB)**

**IFB No. : HLL/CED/CON-AUG/SITC/PANEL BOARD/BTADLCDM/KFB/2013-14**

**Date : 28-02-2014**

HLL Lifecare Limited (HLL) invites sealed and super scribed bids from competent and experienced eligible Suppliers/Contractors for the Supply, Installation, Testing and Commissioning of following item in connection with the Condom Capacity Augmentation Project at our factory in Kanagala, Belgaum, Karnataka.

Sl. No	Brief Description of Item	Quantity	EMD Amount in Rs
1	Supply, Installation, Testing and Commissioning of Panel boards including machine wiring , earthing , illumination and installation of controls/equipments etc. for 2Nos. of Butterfly Type Automatic Double Line Condom Dipping Machine as per drawing and specifications at our factory in Kanagala,Belgaum,Karnataka.	As per schedule of items	Rs. 10,000/-

**CONTENTS OF BIDDING DOCUMENTS**

**I. INSTRUCTION TO BIDDERS:**

1. A complete set of bid documents can be had from the Office of the Associate Vice President (CED), Central Engineering Division, HLL Lifecare Limited, Peroorkada Factory, Thiruvananthapuram – 695 005, Kerala, India during office hours on any working day on submission of written application.

The Tender Documents can also be downloaded from our Website [www.lifecarehll.com](http://www.lifecarehll.com) and the Central Public Procurement Portal of Government of India [www.eprocure.gov.in](http://www.eprocure.gov.in) from the date of issue of tender document. Tender forms shall be filled in ink or typed. No tender filled in pencil shall be considered. The tenderer shall sign and seal the form at each page and at the end, in token of acceptance of all the terms and conditions of the tender. Any sub sequent changes /amendments will be published only in our website & cpp portal only.

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

- a) Date of issue of tender document - 28-02-2014 onwards.
- b) Last date and time for receipt of bids -06 -03-2014 up to 15.00 Hrs.
- c) Date and time of opening of bids - 06-03 -2014 , 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  
Tele Fax: (++ 91 471) 2432647  
E-mail: srnair@lifecarehll.com, rajeevrv@lifecarehll.com.

4. The completed and sealed bid documents and all schedules should be submitted to Associate Vice President (CED) in the above address along with the EMD. Bids received after due date and time will be rejected. Any bid not accompanied by EMD will not be considered.

5.

1. Bidders shall submit their bids in two parts (TECHNICAL BID and PRICE BID) as under.

2. Technical bid, clearly marking consisting of the deviations in specifications if any, and also clause-by-clause compliance of Technical Bid evaluation criteria, specifications and commercial terms and conditions and EMD, in separate sealed covers super scribing "Technical Bid" inside a main cover.

3. Price bids, clearly marking, showing only item wise rates and total prices in sealed covers super scribing "Price Bid" inside a main cover.

## 6. **Earnest Money**

6.1 Each bid must be accompanied by E.M.D.

6.2 The EMD is required to protect the Owner against risk of Bidder's conduct, which would warrant the security's forfeiture

a. The EMD shall be in the form of Demand Draft from a nationalized bank drawn in favour of HLL Lifecare Limited, Thiruvananthapuram 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. The earnest money deposit of the remaining two

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unsuccessful bidders will be released after the acceptance of the notification of award by the successful bidder.

- c. In the case of successful bidder, the Earnest Money will be returned after signing the agreement and submission of Demand Draft towards Security Deposit, which they will have to offer for the faithful execution of the contract.

6.3 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) In case of the successful Bidder, if the Bidder fails:
  - (i) to sign the agreement.
  - (ii) to furnish security deposit.
  - (iii) does not accept the correction of his bid price pointed out by HLL

5.4 The EMD should be enclosed in a separate envelope and superscribed as "EMD" and to be attached in the main cover.

7. 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 '3 (d)' above.

8. In the event of the date specified for bid receipt and opening being declared as a closed holiday for Owner's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
9. The Owner 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 Owner and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
10. Owner 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.
11. The company reserves the right to club or split the supply of items, change the qualifying criteria at their discretion and to reject or cancel the Invitation for bids without assigning any reason thereof.

**ASSOCIATE VICE PRESIDENT (CED)**

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## **II. TECHNICAL BID FORMS**

1. Schedule A - Specifications
2. Schedule B - Prequalification Requirements
3. Schedule C - Application for Prequalification
4. Schedule D - Details of major supply of similar item supplied successfully by the tenderer as during the last 5 years -Details of recent orders
5. Schedule E - Details of ongoing purchase orders
6. Schedule F - Acceptance form
7. Schedule G - Terms and conditions
- 8.. Schedule H - Certificate
9. Schedule I - Price Schedule

## **III. PRICE BID FORMS**

### **SCHEDULE – I PRICE SCHEDULE**

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## SCHEDULE –A

### SPECIFICATION FOR SITC OF PANEL BOARD INCLUDING MACHINE WIRING AND INSTALLATION OF CONTROLS/EQUIPMENTS FOR BUTTERFLY TYPE AUTOMATIC DOUBLE LINE CONDOM DIPPING MACHINE

#### Requirement

Design, supply, fabrication, erection and commissioning of panel board for the butterfly type automatic double line condom dipping machine at our factory in Irapuram with all regulatory requirements .All conforming to the standards mentioned as per satutory authorities against each item on establishing facilities

#### Specifications

**Item: 1.Panel Board as per drawing no.HLL-CED-0013-01**

**2.Wiring diagram as per drawing**

**3.Bill of Materials as per schedule**

#### LIST OF QUIPMENTS TO BE INTGRATED WITH THE PANEL BOARD FOR ONE MACHINE

Sl. NO.	List of Major Equipment	Location L-Left/ R-Right	Other details	Qty
1	Main control panel		Size-1.85x0.55x0.4MTR.	1
2	Chain drive motor		Geared Motor 3kW	1
3	Stirrer 1	1 <sup>st</sup> dipping tank	G.Motor	1
4	Stirrer 2	2 <sup>nd</sup> dipping tank	G.Motor	1
5	Beading 1	(R) Bead unit	G.Motor	1
6	Beading 2	(L) Bead unit	G.Motor	1
7	Intermediate 1	(R) Chamber no.	Heater Details 1. Finned heater,750W (18nos.) (Out of 24nos of finned heaters only 18Nos. are connected via INETR.1 Temperature controller and remaining 6nos. are connected via DIRECT2) 2.Axial Blower, (230V,76W, 3000rpm) (5nos.)	
8	Intermediate 2	(L) Chamber no.	Heater Details	

			1. Finned heater,750W (18nos.) (Out of 24nos of finned heaters only 18Nos. are connected via INETR.2 Temperature controller and remaining 6nos. are connected via DIRECT4) 2. Axial Blower, (230V,76W,3000rpm) (5nos.)	
9	Bottom Oven1	(R) Chamber no.	Heater Zig-Zag heater, 500W 6Nos	
10	Bottom Oven2	(L) Chamber no.	Heater Zig-Zag heater, 500W 6Nos	
11	Main Oven 1	(R) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
12	Main oven 2	(R) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
13	Main Oven 3	(R) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
14	Main Oven 4	(L) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
15	Main Oven 5	(L) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
16	Main Oven 6	(L) Chamber no.	Heater Zig zag heaters 500W (14nos.- two sets in seven chamber)	
17	Direct 1	(R) Chamber no. (After 2 <sup>nd</sup> dip)	Heater 1.Zig-zag heater,500W 6Nos. 2.Rectangular IR heater, 600W 2Nos.	
18	Direct 2	(R) Chamber no. (Intermediate chamber1)	Heater 6nos. of finned heaters in INTER1	
19	Direct 3	(R) Chamber no. (Intermediate chamber1)	Heater details 1. Square type IR heater, 400W (4nos.) 2.Rectangular type IR heater 600W(2nos.)	
20	Direct 4	(L) Chamber no. (After 2 <sup>nd</sup> dip)	Heater 1.Zig-zag heater,500W	

			6Nos. 2.Rectangular IR heater, 600W 2Nos.	
21	Direct 5	(L) Chamber no. (Intermediate chamber2)	Heater 6nos. of finned heaters in INTER2	
22	Direct 6	(L) Chamber no. (Intermediate chamber2)	Heater details 1. Square type IR heater, 400W (4nos.) 2.Rectangular type IR heater 600W(2nos.)	
23	Leaching tank Heaters	Leaching tank	Heater 12nos. of tubular heater,2000W	
24	Wash water	Hot water tank	Heater 1.Immersible heater,2000W(4nos.) 2.Water level controller(1no.) 3Temperature controller(1no.)	
	<b>Motor set 1</b>			
25	Drying motor1	(R)	0.37kW Motor	
26	Drying Motor2	(R)	0.37kW Motor	
27	Drying Motor3	(R)	0.37kW Motor	
28	Drying Motor4	(R)	0.37kW Motor	
29	Tip cleaning Motor		0.25kW Motor	
30	Washing motor1	(R)	0.25kW Motor	
31	Beading Motor1	(R)	0.25kW Motor	
32	Mould rotating motor1	(R)	0.18Kw Motor	
33	Disk Brush motor1	(R)	0.18kW Motor	
	<b>Motor set 2</b>			
34	Drying motor5	(L)	0.37kW Motor	
35	Drying motor6	(L)	0.37kW Motor	
36	Drying motor7	(L)	0.37kW Motor	
37	Drying motor8	(L)	0.37kW Motor	
38	Water jet motor		3.73kW Motor	
39	Washing motor2	(L)	0.25kW Motor	
40	Beading Motor2	(L)	0.25kW Motor	
41	Mould rotating motor2	(L)	0.18Kw Motor	
42	Disk Brush motor2	(L)	0.18kW Motor	
43	Dehumidifier		Heater + Blower 25kW	1
44	Bidder shall be in a position to design all Electrical & Instrumentation equipment in the panel board . The Bidder shall take into consideration of all relays, contacts etc fittings and other miscellaneous equipment for the system to be in complete respect. The Bidder shall practice the most modern design and technology for the panel board. The Bidder has to furnish general arrangement drawing with main components inner details and inner technical details including materials.			
45	ERECTION & COMMISSIONING: The Erection & Commissioning and handing over of the system is in the scope of Bidder. The work shall be executed in a professional manner adopting safe working practices.			



	All Statutory labour laws like PF , ESI etc., in respect of labour shall be strictly adhered to.	
46	It is the responsibility of the supplier to apply touch up painting on all equipment before erection at his cost. Preservation of all equipment at all stages of handling, transporting to site of work or Pre Assembly , Pre Assembly Erection, Testing, Commissioning , and till the unit is handed over to HLL for regular operation.	

**N.B**

**The quantity mentioned in BOM is for one machine and the party shall quote for two machines.**

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## **SCHEDULE -B**

### **PREQUALIFICATION REQUIREMENTS**

1. The BIDDER shall have a minimum of THREE Years of Continuous Experience in the Field of Design, Manufacture, Supply, erection and Commissioning of PANEL BOARD and Electrical distribution.
  2. The BIDDER might have supplied, erected & commissioned at least FIVE numbers of panel board with Associated Accessories .
  3. Performance Certificate for a period, not less than one year, from CUSTOMERS and Reference List of Customers (minimum Two) with full contact details of CONTACT PERSON, SHOULD BE SUBMITTED.
  4. HLL reserves the right to verify the information provided by vendor. In case, it is found to be false/ incorrect, the offer shall get rejected
  5. The bidder should have completed at least two work/purchase orders similar in nature in single contracts – in the same name and style as prime supplier/manufacturer costing not less than Rs.5 lakhs during the last 2 years. For the purpose of this clause.
    - a) 'Similar work' shall mean preferably the SITC of Panel Boards including machine wiring and installation of controls etc.
    - b) Cost of supply shall mean the cost of purchase order/work order executed. Certificate of satisfactory completion of supply of materials/work obtained from an officer not below the rank of an executive engineer in the case of Government departments or from an officer of equivalent position in the case of other organization shall be produced. The certificate will clearly indicate the name of item supplied, period during which completed (giving date of commencement and date of completion of supply/work). The certificate should bear the name, signature and seal of the officer. In the absence of such a certificate the tender may not be considered.
  6. Average annual financial turn over of the bidder during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be furnished.
  7. The bidder should submit Earnest Money Deposit in the manner specified along with the tender document.
  8. Power of Attorney in case an authorized representative has signed the tender.
  9. The duly signed acceptance form conforming that All terms & conditions, technical specifications, drawings & volume of supply/work are understood by the bidder .Certificate that bid is in total conformity with the specifications and terms and conditions mentioned in the bid document and certificate on period of validity (sheet enclosed)
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10. Deviation if any, giving reasons for the deviation.
  11. Even though the bidder meet the above qualifying criteria, they are subject to be disqualified if they have:
    - Record of poor performance such as rejection of supply, delay in delivery date stipulated, litigation history, or financial failures etc...
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## SCHEDULE – C

### APPLICATION FOR PREQUALIFICATION

NAME OF ITEM: Design, Supply, Installation, Testing and Commissioning of Panel boards (2nos. each) including machine wiring and installation of controls for 2nos. of Butterfly Type Automatic Double Line Condom Dipping Machine as per drawing and specifications at our factory in Irapuram, Kerala

A. Name of Firm/Company :

1. Postal address :

2. Telephone No :

FAX :

E-Mail :

3. Year of commencement of Contract/  
Year of establishment of firm/Company :

B. In the case of Firm

1. Whether proprietary of partnership firm:

2. Name of Managing partner :

3. Name of other partners :

Note: Attested copy of partnership deed to be enclosed

C. In the case of Company

1. Whether Private Limited or Public Limited  
Company :

2. Name of Managing Director :

3. Name of other Directors :

Note: Attested copy of Company Registration deed to be enclosed.

D. No. of major supplies of similar item supplied successfully in India, specify.  
Enclose two completion certificates from the client certified that the similar item supplied successfully. The client list shall be enclosed.

Note: Details to be furnished in **SCHEDULE -D**

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E. Has the Supplier/Firm/Company ever been black listed by the Govt/or the registering authority.

i) if so, give the period and details.

F. Average annual financial turn over of the bidder during the last 3 years, ending 31<sup>st</sup> March of the previous financial year..

a. Annualised turn over of the Contractor/Firm/Company in the last 3 years ending 31.03.2013

1. 2010-2011: Rs
2. 2011-2012: Rs
3. 2012-2013: Rs

(Bio data with willingness letters to be enclosed in **SCHEDULE -C**)

G. Acceptance Form in **SCHEDULE – F**

H.CERTIFICATE as per **SCHEDULE - H**

I/We hereby certify that the details given in the application form is correct to the best of my/our knowledge. I /We have no objection in contacting any of our clients for reference.

Signature:

Place:

Date:

Name and address of the bidder with seal:

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**SCHEDULE - D**

<b>DETAILS OF MAJOR SUPPLY/WORK OF SIMILAR NATURE EXECUTED SUCCESSFULLY BY THE TENDERER AS PRIME SUPPLIER/AUTHORISED DEALER DURING THE LAST 5 YEARS</b>				
Sl. No.	Name of Client with full address, telephone numbers and nature of item supplied	Details of item supplied/ Work executed	Value of items supplied/work done (in lakhs)	Period of Completion with dates (in months)

**SIGNATURE OF BIDDER WITH SEAL**

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**SCHEDULE - E**

<b>DETAILS OF ONGOING WORKS OF SIMILAR NATURE</b>			
Sl. No.	Name of Client with full address, telephone numbers and nature of item	Description of item/work	Value of purchase order/work order (in lakhs)

**SIGNATURE OF BIDDER WITH SEAL**

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**SCHEDULE – F**

**ACCEPTANCE FORM**

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

From

To

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  
Tele Fax: (++ 91 471) 2432647  
E-mail: [smnair@lifecarehll.com](mailto:smnair@lifecarehll.com), [rajeevrv@lifecarehll.com](mailto:rajeevrv@lifecarehll.com).

Dear Sir,

I / We, hereby offer to supply/execute work 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 bid and agree to hold this offer open for 90 days from 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 quoted in the bid document hereto and are fully aware of the nature of the scope of supply of item required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above.

The following pages have been added to and form part of this bid.

Yours faithfully,

**SIGNATURE OF THE BIDDER WITH SEAL**

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## **SCHEDULE – G**

### **TERMS & CONDITIONS**

1. The Tender should be completed in all respects. Incomplete tenders are liable to be rejected.
2. Unsealed Tenders received are liable to be rejected and this will be at the sole risk of the Tenderer.
3. The tender is liable to be suspended or cancelled at anytime at the discretion of the company without assigning any reason.

In the event of placing orders: -

- a. In tenderer shall return one copy of order signed and sealed as a token of acceptance.
- b. (i) In case of rejection, the equipment should be taken back and replaced at yours risk and cost within 7 days of intimation from HLL.  
  
(ii) Equipment shall be returned back to you through the Transporter indicated by you.
- c. The SUPPLIER/AUTHORISED DEALER agrees to supply strictly as per the order terms in respect of quality and specification. HLL reserves the right not to receive the goods beyond the delivery date given in the order.

#### **4. 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, loading and unloading charges, insurance, etc. The Supplier should pay entry taxes, as applicable and should be included in the offer.

The Price Schedule (Schedule I) shall be suitably filled as applicable. The quoted rate shall be valid for a period of 31<sup>st</sup> March 2014. No price escalation and no change in terms and conditions will be allowed on any ground till the order is completely executed.

#### **5. TAXES/DUTIES/LEVIES**

The supplier 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

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shall be shown by the bidder separately in the Bid. The Purchaser will issue necessary 'C' Form, if required.

## **6. COMPLETION TIME**

- a. The item should be delivered within **10 Days** from the date of issuing the Letter of Intent or Supply Order.

## **7. DEFECT LIABILITY PERIOD**

The defect liability period of the work shall be 12 months from the date of completion of the work and this date will start from successful completion and handing over. If any damage or defect occurs in the work during this period then the Contractor shall rectify the damage or defect at his own expense to the satisfaction of the Owner. If the Contractor fails to do so, then the Owner shall have the authority to get the work done by other means and the expenditure incurred shall be recovered from the Contractor.

Even if Inspection and/or tests are fully carried out by Owner or their representatives, the Contractor is not absolved to any degree of his responsibility to ensure that all equipment fabricated comply strictly with the requirements as per specifications given in the order, and the Owner shall be free to point out any defect till the defect liability period is over.

## **8. GUARANTEE PERIOD**

The Guarantee against any possible manufacturing defects shall be given for a period of 12 months from the date of supply and inspection of the items at HLL site or 12 months from the date of supply, whichever is earlier. The supplier/contractor has to provide 10% performance bank guarantee valid for guarantee period as per tender.

## **8. LIQUIDATED DAMAGES FOR DELAY**

The parties have to abide by delivery schedule given in the supply order strictly. Penalty for delay @ 0.5% value of the materials per week of delay subject to a maximum of 7.5% of the value of the supply order will be imposed, if equipment is accepted by the Company after the stipulated delivery period.

## **9. PAYMENT TERMS :-**

1. 60% of the payment on pro-rata basis shall be released after satisfactory installation, integration, testing and trial run of the BTADL condom dipping machine and satisfactory continuous operation for a period of 7 days.
  2. Balance 30% of the payment on pro-rate basis shall be released within 45 days of satisfactory continuous operation for 2 shift operation/days (16 hrs) / 45days validation, performance evaluation in
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terms of quality, quantity and commissioning, and final acceptance certificate issued by the competent authority.

- 3.** The balance 10% payment shall be released against a Performance guarantee valid for a period of one year from the date of the issue of final acceptance certificate of the entire system.

The jurisdiction of any disputed, suits and proceedings arising out of this tender shall be only in the court of Thiruvananthapuram.

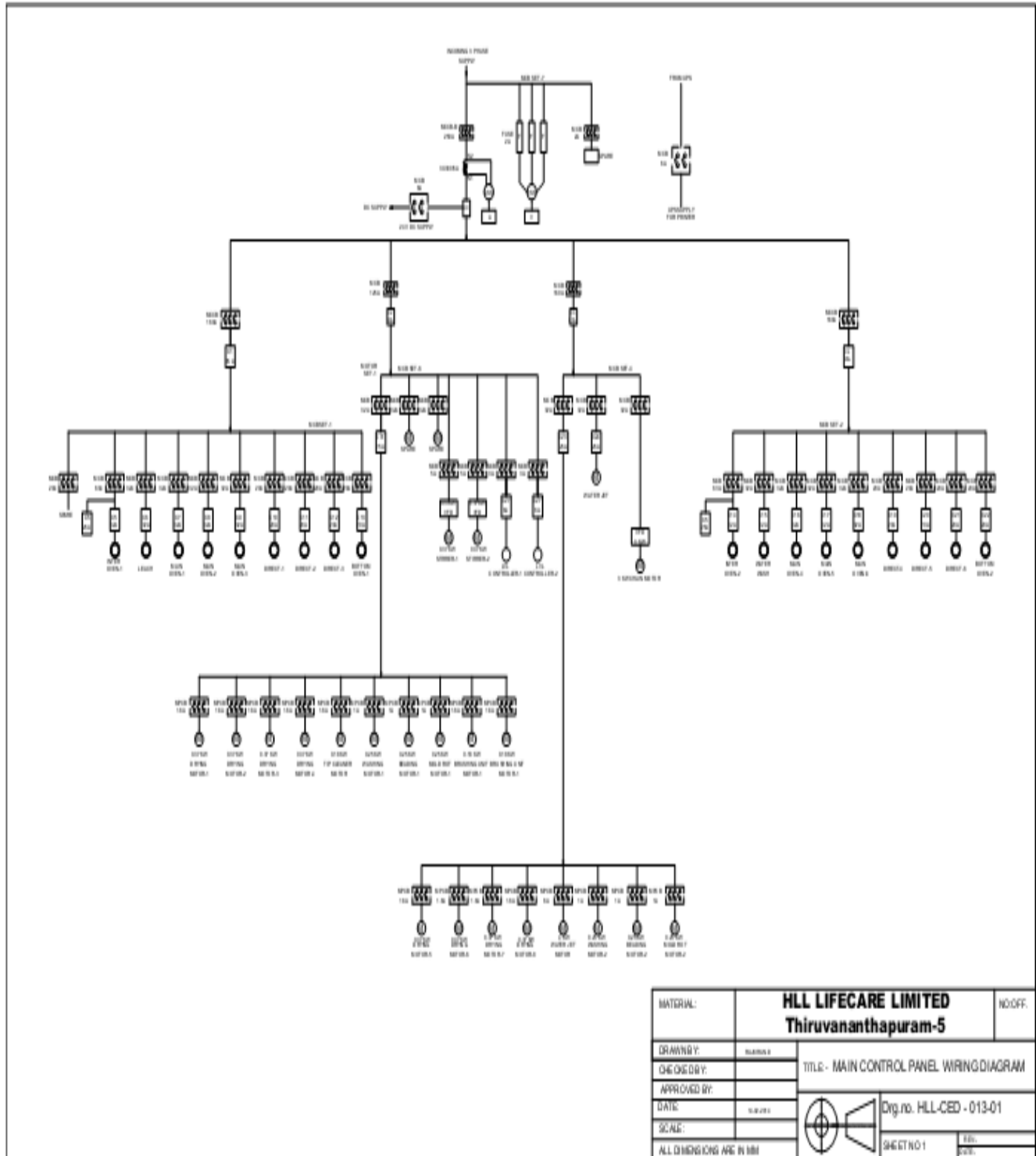
## **SCHEDULE - H**

### **CERTIFICATE**

I / we hereby certify that the information given with this bidding document is correct. If, at any stage, it is found to be incorrect, I / we understand that the contract will be liable to be terminated and action could be taken against me/us by the Company for damages.

### **SIGNATURE (S) OF BIDDER WITH SEAL**

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





**SCHEDULE FOR THE SUPPLY,INSTALLATION,TESTING AND COMMISSIONING OF PANEL BOARD INCLUDING MACHINE WIRING AND INSTALLATION AND INTEGRATION OF INSTRUMENTS AND CONTROLS**

Sl.No.	Item			Unit	Qty.
I.	Supply of Panel Board size 1.85x0.55x0.4MTR made with 1.6MM Powder coated CRCA Sheet			Nos	1
II.	<b>Supply and Installation of Contactor</b>				
	Recommended make :L&T,Seimens,Moller, AB				
	Contactor Type	Specification	Contactor name as per SLD		
1	DIL M 95- Moeller or equivalent model from recommended makes	3pole 450volts, 95A, 230V-coil, din-rail mounting	C1 & C4	Nos.	2
2	DIL M40-Moeller or equivalent model from recommended makes	3pole 450volts, 40A 230V-coil, din-rail mounting	C2,C3, C5, C6,C7,C8,C9,C10 ,C11,C12,C13,C14,C16,C17,C18,C19,C20,C21,C22	Nos.	19
3	DIL M25-Moeller or equivalent model from recommended makes	3pole 450volts, 25A230V-coil, din-rail mounting	C15,C23,C24,C25,C26,C27,C28,C29,C30,C31, C32	Nos.	11
III.	<b>Supply and Installation of Switches</b>				
	Recommended make :				
1	Rotary switch(ON/OFF)	450V,15A	SW1-SW30	Nos.	30
2	Push switch(ON/OFF)	450V,5A,22.5mm OD	PS1-PS10	Nos.	10
3	Emergency stop switch	230V,5A,22.5mm OD	ES1-ES15	Nos.	15
IV.	<b>Supply &amp; Installation of Trivector Meter</b>				
1	Capable of measuring KVA,KW,KVAR,V,A,P,F and releated electrical parameters with appropriate CTs and PTs.Recommended make :- Consrve,L&T,Secure,Rishab			Nos.	1

Sl.No.	Item			Unit	QTY.
<b>V. Supply &amp; Installation of MCCB</b>					
Recommended make : L & T, Siemens, Moeller, AB					
	MCCB Type	Specification	Name		
1	LZM2- Moeller or equivalent model from recommended makes	In - 200A,3 Pole,450 Volts ,CAT-B	Main Incomer MCCB-B	Nos.	1
2	LZMN1- Moeller or equivalent model from recommended makes	In -160A,3 Pole,450 Volts ,CAT-A	160 A MCCB-A	Nos.	2

<b>VI. Supply &amp; Installation of MCB</b>					
Recommended make : L & T, Siemens, Moeller, AB					
1	C12ON-Moeller or equivalent model from recommended makes	In-120A,3Pole, 450Volts	120A MCB	Nos.	2
2	C32-	In-32A,3Pole,450 Volts	32A MCB	Nos.	10
3	C20	In-20A,3Pole,450Volts	20A MCB	Nos.	16
4	C10	In-10A,3Pole,450Volts	10A MCB	Nos.	10
5	C6	In-6A, 3Pole, 450 Volts	6A MCB	Nos.	6

<b>VII. Supply &amp; Installation of Motor CB</b>					
Recommended make : L & T, Siemens, Moeller, AB					
1	5A-Moeller MPCB with ROM	5A, 3Pole,450 Volts	5A MPCB	Nos.	4
2	1.6A-Moeller MPCB with ROM	1.6A,3Pole,450Volts	1.6A MPCB	Nos.	12
	1A, Moeller MPCB with ROM	1A,3Pole,450Volts	1A MPCB	Nos.	12

<b>VIII. Supply &amp; Installation of Temperature Controller</b>					
Recommended make:- Autonics, Shinko, Omron, Hanyong					
1	Autonics TC4S-14R,240V,50Hz,TC/RTD sensor		TC-1 to TC-16	Nos.	16

<b>IX. Supply &amp; Installation of RTD Sensor</b>					
1	PT 100-3 WIRE Class 2			Nos.	16

<b>X. Supply of Water Level Controller</b>					
1	Float switch/Level switch	Float switch, Flange Type fixing, SS Make 230V,50Hz		Nos.	1



SI.No.	Item			Unit	Qty.
<b>XI. Supply of Latex Level Controller (PID)</b>					
1	Capacitive proximity switch Omron,E2k-C25 MF1	24Volt	Omron,180mm	Nos.	2
2	Air solenoid valve 5 port two way valve,Make Festo MFH series	24Volt		Nos.	2
<b>XII. Supply of Latex Temperature Controller (PID)</b>					
1	Water solenoid valve,Make ASCO	230Volt,1/2"		Nos.	3
<b>XIII. Supply &amp; Installation of Variable Frequency Controller:-</b>					
1	Allen Bradley Power flex 4AC series	3.7KW,480V,50Hz	VFD	Nos.	1
<b>XIV. Supply &amp; Installation of Air Solenoid Valve:-</b>					
Recommended make:- Festo,CKD					
1	Festo MFH3-1/8 with suitable poly urethane tube(100mtr)	24VDC		Nos.	2
<b>XV. Supply &amp; Installation of Junction box:-(Material :Bakelite)</b>					
1	150X75X100MM			Nos	18
2	110X110X55MM			Nos	18
3	250X200X100MM			Nos	3
4	110X160X80MM			Nos	8
5	200X150X80MM			Nos	3
<b>XVI. Supply &amp; Installation of Connectors:-</b>					
1	Connector 3 Pole,5A				
<b>XVII. Supply &amp; Installation of Cables:-</b>					
1	3x1.5 sq mm Cu cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	400
2	4x2.5 sq mm heat resistant Cu cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	200
3	5 x 2.5 sq mm Cu cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	400
4	3 x 1 sq mm Cu shielded cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	400
5	3 x 2.5 sq mm heat resistant Cu cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	100
6	4 x 1.5 sq mm Heat resistant Cu cable	PVC Sheath	Finolex/Gloster/Ni cco	Mtr.	400



**HLL LIFECARE LIMITED**  
**CENTRAL ENGINEERING DIVISION**  
**(A GOVT. OF INDIA ENTERPRISE)**  
**PEROORKADA. P.O, TRIVANDRUM 695 005**  
**IFB No.: HLL/CED/CON-AUG/SITC/PANEL BOARD/WIRING/BTADL CDM/2014**  
**Quantity : 2 SETS**

**SUB :PRICE SCHEDULE FOR THE SUPPLY,INSTALLATION,TESTING&**

**COMMISSIONING OF CONTROL PANEL BOARD INCLUDING MACHINE WIRING AND**

**INSTALLATION OF CONTROLS FOR CONDOM DIPPING MACHINE**

PRICE PARTICULARS	PER UNIT (IN RS.)
BASIC PRICE FOR CONTROL PANEL BOARD & MACHINE WIRING	
BASIC PRICE FOR THE SUPPLY & INSTALLATION OF CONTROLS& COMPONENTS	
Excise DUTY (% to be furnished)	
CESS ON EXCISE DUTY	
CST/VAT (% to be furnished)	
Freight	
Insurance	
INSTALLATION CHARGES	
OTHERS, IF ANY (please specify)	

**GROSS AMOUNT FOR TWO SETS**

(Rupees.....  
.....)

**N.B**

**The quantity mentioned in BOM is for one machine and the party**

I agreed to supply the material and do the work as per the schedule at

**SIGNATURE OF THE PARTY**