

HLL LIFECARE LIMITED
(A Government of India Enterprise)
P.B.NO.2, PEROORKADA.P.O,
THIRUVANANTHAPURAM - 695 005
KERALA, INDIA

PRICE BID

FABRICATION, ASSEMBLY, LEADING, INSTALLATION,
INTEGRATION AND COMMISSIONING OF
4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS
FOR THE MANUFACTURE OF MALE CONDOMS AT OUR
FACTORIES IN KERALA/ KARNATAKA

IFB No : HLL/CED/CON-AUG/MM-FAB/2012
Date : 22-11-2012

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(A Government of India Enterprise)
P.B.NO.2, PEROORKADA.P.O,
THIRUVANANTHAPURAM - 695 005
KERALA, INDIA
Phn: - (++ 91 471) 2437270
Fax: - (++ 91 471) 2432647

INVITATION FOR BIDS (IFB)

IFB No : HLL/CED/CON-AUG/MM-FAB/2012
Date : 22-11-2012

HLL Lifecare Limited invites sealed and super scribed Technical and Price bids from competent and experienced eligible Contractors for the following work in connection with the implementation of Condom Capacity Augmentation Project at our Factories in Kerala/Karnataka.

Sl.No.	Brief description of work	Quantity in Nos.	EMD (Rs.)
1	Fabrication, Assembly, Leading, Installation, Integration and Commissioning of Condom Moulding Machines on turnkey basis for the manufacture of male condoms at our Factories in Kerala/ Karnataka	4	1,00,000/-

2. Eligibility criteria for issue of Bid document.

- a) Minimum 5 years experience in the relevant field
- b) The Bidder should have executed successfully two fabrication works, each work costing not less than Rs 50 Lakhs/-, during the last 5 years.
- c) Average annual financial turn over of the bidder during the last 3 years, ending 31st march of the previous financial year, should be at least Rs 50 Lakhs.

3. A complete set of bid documents can be had from the Office of the Deputy Chief Engineer, 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 along with the tender cost of Rs 550/- (inclusive of all taxes).

The Tender Documents can also be downloaded from our Website www.lifecarehll.com 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.

Note:- In case the bidder downloads the tender form from our website, the bidder shall enclose DD for Rs 550/- (inclusive of taxes) as cost of tender along with the bid document.

4. The bid documents will be available up to 15.00 Hrs. on the previous working day of the opening of the bids.
5. The scheduled date for issue, receipt and opening of bids is as follows.
 - a) Date of issue of tender document - 22-11-2012 onwards.
 - b) Last date and time for receipt of bids - 19-12-2012 up to 15.00 Hrs.
 - c) Date and time of opening of bids - 19-12-2012, 15.30 Hrs.
 - d) Address for communication, receipt and place of opening of bids:

Deputy Chief Engineer,
Central Engineering Division,
HLL Lifecare Limited (A Government of India Enterprise),
PB No 2, Peroorkada, Thiruvananthapuram – 695005,
Kerala State, India
Ph: (++91 471) 2437270 – 371, 372
Tele Fax: (++ 91 471) 2432647
E-mail: rajeevrv@lifecarehll.com, harikrishnankp@lifecarehll.com

6. The completed and sealed bid documents and all schedules should be submitted to Deputy Chief Engineer (Central Engineering Division), 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 be rejected
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 '5 (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 items of works, change the qualifying criteria at their discretion and to reject or cancel the Invitation for bids without assigning any reason thereof.

DEPUTY CHIEF ENGINEER

SCHEDULE I

CONDITIONS OF BID

1. Definitions

- a. **“Invitation For Bid (IFB)”** shall mean and include the present document, and such other complements and agenda, which may subsequently be issued in this connection.
- b. **“Owner”** shall mean HLL Lifecare Limited, (Thiruvananthapuram) or its units thereof.
- c. **“Bidder”** shall mean the person, firm of Corporation submitting a bid against this Invitation for Bid and shall also include his agents and representatives.
- d. **“Contractor/Fabricator”** 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 work order by the Contractor.
- f. **“Site”** means the Owner’s manufacturing facility at Kerala/Karnataka.
- g. **“The bid documents”** in addition to the invitation for bids and Conditions of Bid (Schedule I), the bid documents include the following schedules.

SCHEDULE -II	: General Conditions of Contract
SCHEDULE -III	: Detailed Specification
SCHEDULE -IV	: Schedule of Work
SCHEDULE -V	: Format of Agreement

- h. **“Eligible Bidders”** This Bid is opened to all eligible manufacturers and/or their authorized agents.
- i. **“The contract price”** means the price payable to the Contractor under the contract for the full and proper performance of its contractual obligations.
- j. **“Performance of the Contract”** means successful completion of contract.

2. Bid Information and Period of Validity

2.1 Bidders shall submit their bids in two parts (TECHNICAL BID and PRICE BID)

2.2 The Technical Bid must include the following information;

- a. The details specified under Technical bid Evaluation Criteria.
- b. All other documents/certificate/information as specified in the bidding document.

- 2.3 The Price Bid must be as per the following
- a. The bid is invited for **“Fabrication, Assembly, Leading, Installation, Integration and Commissioning of 4 Nos. Condom Moulding Machines on turnkey basis for the manufacture of male condoms at our Factories in Kerala/ Karnataka”** at ‘Site’ as per the Specification, Terms and Conditions as specified in the Bid Documents. The Bidder shall indicate the price in the enclosed format **(Schedule – IV)** inclusive of all the consumables, relevant taxes and duties, other levies, insurance and other local costs, loading and unloading of Contractor’s materials etc. on a turnkey basis as per the Specifications, Terms and Conditions, Schedule of Work specified in the Bid Documents. Civil work is excluded from the scope of the Contractor.
 - b. Rates should be firm without any escalation on any account till the order is completely fulfilled.
- 2.4 Bids shall remain valid for 90 days after the date of bid opening prescribed by the Owner.

3. Format and Signing of Bid

- 3.1 Bidders shall submit their bids in two parts (TECHNICAL BID and PRICE BID) as under.
- a) Technical bids, in duplicate clearly marking each “Original Bid” and “Copy Bid”, as appropriate, 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.
 - b) Price bids, in duplicate clearly marking each “Original Bid” and “Copy Bid”, as appropriate, showing only item wise rates and total prices in separate sealed covers super scribing “Price Bid” inside a main cover.
- 3.2 When the main cover is opened on the date and time scheduled for bid opening, only the technical bids will be opened.
- 3.3 Bidders whose technical bids are found substantially responsive will be informed of the date and time of opening of their price bids. Price bids of others will be returned to them unopened.

- 3.4 All pages of the bid, except for un-amended printed literature shall be signed by the person or persons signing the bid. The seal of the company shall be stamped in all pages.
- 3.5 Bids shall be made in English.
- 3.6 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 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 Owner in the following address and

Deputy Chief Engineer,
Central Engineering Division,
HLL Lifecare Limited (A Government of India Enterprise),
PB No 2, Peroorkada, Thiruvananthapuram – 695005,
Kerala State, India
Ph: (++91 471) 2437270 – 371, 372
Tele Fax: (++ 91 471) 2432647
E-mail: rajeevrv@lifecarehll.com, harikrishnankp@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 Owner will assume no responsibility for the bid’s misplacement or premature opening.
- 4.4 Bids should be hand delivered or sent by courier/mail to ensure timely receipt. Telex, Cable, E-mail or facsimile bids will be rejected.

Deadline for submission of Bids

- 4.5 The Owner in the following address will receive the bids not later than the date and time specified in the Invitation for Bids or Subsequent extended dates.

Deputy Chief Engineer,
Central Engineering Division,
HLL Lifecare Limited (A Government of India Enterprise),
PB No 2, Peroorkada, Thiruvananthapuram – 695005,
Kerala State, India
Ph: (++91 471) 2437270 – 371, 372
Tele Fax: (++ 91 471) 2432647
E-mail: rajeevrv@lifecarehll.com, harikrishnankp@lifecarehll.com

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

- 4.6 The Owner may, at his 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.
- 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 Deputy Chief Engineer (Central Engineering Division)**, in the above address by the date and time stipulated for receipt as above failing which the bid would be considered late and rejected. 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 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

1. A prospective Bidder requiring any clarification of the Bidding Documents may notify the Owner in writing, or by fax at the Owners mailing address indicated in the Invitation for Bids. The Owner 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 Owner.

2. Given specification is indicative only. **The bidder should visit the plant and see the machines and also make 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 Owner will not be responsible for any wrong quotes due to inadequate information.

6. Amendment of Bidding Documents

- 6.1 At any time prior to the deadline for submission of bids, the Owner 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 Owner may, at its discretion, extend the deadline for the submission of bids.

7. Bid Opening by Owner

- 7.1 The Owner 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 Owner, 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 Owner, at his discretion, may consider appropriate will be announced at the opening.
- 7.3 The Owner will prepare appropriate bid opening register and bidders present during the opening of the bids and Owner shall sign the same.

8. Clarification of bids

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

9. Preliminary examination

- 9.1 The Owner 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 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 Owner deems necessary and appropriate.
- 9.3 Prior to the detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the bidding documents. For the purpose of these clauses, a substantially responsive bid is one which conforms to specifications and all the terms and conditions of the bidding documents without material deviation. The Owner'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 Owner and may not subsequently be made responsive by the bidder by correction of the non-conformity.
- 9.5 The Owner 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 Owner'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 Owner reserves the right to examine the details given in the technical bid by visiting the office and fabrication workshop/facility of the bidder and take decision based on the visit.

- 10.2 The Owner will technically evaluate all bids previously determined to be responsive and open the price bids previously determined to be substantially responsive and technically acceptable with intimation.

11. Post-qualification

- 11.1 Notwithstanding the qualification requirements given in this document, the Owner 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 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.
- 11.3 The Owner 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 Owner will proceed to the next lowest evaluated bid to make a similar determination of that bidder's capabilities to perform satisfactorily.

12. Award Criteria

The Owner 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 Owner will notify the successful Bidder in writing by or 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 and/or Work order.
- 13.2 The signed acceptance of the notification of award & execution of agreement in the format attached on proper stamp paper by the Contractor will constitute a concluded contract.
- 13.3 Upon the successful Bidder's furnishing of Security Deposit, the Owner will discharge EMD submitted by unsuccessful bidders.

14. Security Deposit and Agreement

- 14.1 Simultaneously with the execution of the contract successful bidder shall furnish a Security deposit in the form of a Demand Draft from a nationalised bank drawn in favour of HLL Lifecare Ltd, Thiruvananthapuram payable at Thiruvananthapuram or a Bank Guarantee from a nationalised bank, for an amount equal to 5% of the total contract value as Security Deposit for his faithful execution of contract. The Security deposit should be valid until successful completion of the contract and acceptance of the Equipment/works by the Owner and will be released after acceptance of the Equipment by the Owner. In case of a delay in the works the validity of security deposit shall be extended.
- 14.2 Within 21 days of the receipt of notification of award from the Owner; the successful Bidder shall furnish the security deposit in the form of a Demand Draft or Bank Guarantee in the security deposit form to be sent along with the Notification Of Award.
- 14.3 Failure of the successful Bidder to accept the notification of award or submission of security deposit within the timeframe shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which even the Owner may make the award to the next lowest evaluated bidder or call for new bids.
- 14.4 The successful bidder should also sign an agreement with HLL on proper stamp paper within 21 days of award of work. The agreement format is enclosed as **Schedule V**.

15. Earnest Money

- 15.1 Each bid must be accompanied by E.M.D.
- 15.2 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 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.

15.3 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

SCHEDULE - II

GENERAL CONDITIONS OF CONTRACT

1. PROJECT INFORMATION

The detailed information of the project given below is as per Owner's present requirement. However, it is not binding on the Owner in any way and shall not govern the scope of works.

2. LOCATION

The machines are proposed to be fabricated at HLL's factories in Kerala/Karnataka and to be installed in these factories.

3. PRICE

Price quoted should be firm without any escalation till the order is completely executed and should be for complete Fabrication, Assembly, Leading, Installation, Integration and Commissioning *of the condom moulding machines* for the manufacture of male condoms on a turnkey basis as per the terms and conditions of this bidding document.

4. TAXES / DUTIES / LEVIES

The rates quoted for each item should be inclusive of all applicable taxes and duties and any other levies for the successful fabrication, Assembly, Leading, Installation, Integration and Commissioning of the moulding machines.

5. INSURANCE

The Fabricator shall at his own expense carry and maintain insurance with reputed insurance companies to the satisfaction of the Owner as under:

i) Insurance of employees:

The Fabricator shall accept full and exclusive liability for the compliance of all obligations and responsibilities imposed by the Employees State Insurance Act, 1948 and its amendments and any liability or penalty which may be imposed by the Central, State or Local Authorities due to the reason of violation by the Contractor or sub-Contractor of the Employees State Insurance Act, 1948 and its amendments. The Contractor shall agree to fulfill the requirement of the Employees State Insurance Corporation and maintain the declaration forms and all such forms, which may be, required in respect of

the Contractor's, sub-Contractor's employees who are employed in the work provided for or those covered by E.S.I.C. from time to time under the agreement. The Owner shall retain such sum as may be necessary from the total contract value until the Contractor shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948 and its amendments have been paid by him.

ii) Workmen's Compensation:

Insurance shall be affected for all the Contractor's employees engaged for this contract. The Contractor shall also carry and maintain all other insurance, which may be required under any law or regulations from time to time. He should also carry and maintain any other insurance, which may be required by the Owner.

iii) Loss or damage and Indemnity Agreement:

The Contractor shall be responsible during the progress of work as well as guarantee period for any liability imposed by law for any damage to work or any part thereof or to any of the material or other things including those of Owner used in performing the work or for injury to any person or persons or for any property damaged in or outside the site. The Contractor shall indemnify and hold the Owner harmless against all liabilities, claims, loss or injury, including costs, expenses and attorney's fees incurred in the defense of same, arising from any allegation whether groundless or not, of damage or injury to any person or property resulting from the performance of the work or from any material used in the work or from any condition of the work or work site or from any cause whatsoever during the progress and maintenance of the work.

iv) Third party insurance:

Before commencing the execution of the works the Contractor, but without limiting his obligations and responsibilities, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property, including that of the Owner, or to any person, including any representative of the Owner, by or arising out of the execution of works or in the work being carried out by the Owner, by or arising out of the provision of clause 5 (iii) here of. Such insurance shall be affected with an insurer and in terms approved by the Owner.

v) The Contractor shall take suitable **Insurance** policy, jointly in the name of HLL Lifecare Limited and the Contractor and the insurance should be valid till the satisfactory completion of the work. The copy of the policy shall be deposited with HLL before commencing the work.

6. ESCALATION

The rates quoted by the Contractor in the contract documents shall be final and shall not be subjected to any change due to the increase in labour wages or inflation in the cost of materials or any other price variations due to any reason during the stipulated time period of the contract or during the extended time period of completion.

7. PAYMENT TERMS

The payment terms are as follows:-

- a) 80% of the each running bill amount will be released monthly against the bill verified and certified by HLL on actual measurement basis.
- b) 15% of each running bill up to commissioning will be released after successful commissioning and handing over of each machine.
- c) Balance 5% of the each running bill will be retained as retention amount, which shall be released after the defect liability period of 12 months or on submission of a Bank Guarantee for an equal amount from a nationalized bank valid for 1 year from the date of successful commissioning and handing over. No interest shall be paid on the retention amount.

Tax Deduction: All statutory deductions like Service tax, Income Tax, E.S.I., P.F. or any other government imposed liabilities for this labor contract shall be borne by the Contractor (as applicable at the time of execution of job) and shall be deducted from each bill submitted by the Contractor.

Owner will not entertain the presentation of documents through Bank.

8. 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.

9. MATERIALS:

The consumables, tools, tackles, scaffolding and testing equipments etc required for fabricating the machines are to be supplied by the Fabricator. HLL will only supply the materials for fabrication. The safe storage of materials supplied shall be the responsibility of the Contractor.

10. PERIOD OF COMPLETION

The machines should be successfully commissioned at Owners site within **TWELVE MONTHS** from the date of notification of award.

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

The equipment should be erected, tested, commissioned and handed over to Owner strictly within the time stipulated.

11. FABRICATION SCHEDULE

The Contractor shall furnish to Owner, a PERT/BAR CHART, within 15 days of receipt of the Order. The PERT/BAR Chart, should give all important milestones. If any of the initial or intermediary milestones gets delayed for any reasons, the Contractor shall adjust the subsequent milestones in such a way that the final date for handing over of the equipment as per the Order is not effected.

12. PROGRESS REPORT

During execution of the contract, the Contractor shall furnish bi-weekly progress reports to the Owner indicating the progress achieved during the week and the total progress up to the last week as against scheduled and anticipated completion dates in respect of key phases of the work. The Contractor shall also furnish any other information in order to ascertain progress, if called for by the Owner.

13. LIQUIDATED DAMAGES FOR DELAYS

If the equipment is not erected, commissioned and handed over to the Owner within the time stipulated in the Order, Owner may at their option, either (1) recover from the 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 Contractor 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 contractors.

14. INSPECTION AND TESTING

HLL shall have the right to inspect and measure the progress of execution of the Order. The Fabricator should make available all tools, instruments, apparatus, equipment, facilities and services to enable the Owner's nominee to carry out such inspection/tests without obligations. Notwithstanding any such inspection/tests carried out, the equipment shall be accepted only after successful commissioning at the site and the inspection/tests carried out earlier will not relieve his contractual obligations for conforming to the specifications under the Order.

15. DEFAULT BY CONTRACTOR

If the Contractor fails to maintain progress and quality of work proportionate to time period allotted for the work in spite of notices or complete the work within the stipulated time period or extended time period, then the Owner shall have the right:

- i) To determine the contract: In this event, the contract shall be terminated by giving written notice to the Contractor and the unfinished works shall be got completed by labours engaged by the Owner or through other agency at the risk and cost of the Contractor.
- ii) Without determining the contract: In this event, the remaining works shall be got executed through a fresh Contractor in which case the Contractor shall not have any objection or claim on this account.
- iii) Before determining the contract: In this event, if the Owner finds that the defaults of the Contractor can be rectified, then an opportunity shall be given to the same Contractor to rectify the defects /defaults in the specified time.
- iv) Termination of contract for death: If the Contractor is an individual of a proprietary firm and proprietor of the firm dies and if the Contractor is a

Attorney of partnership firm and dies, then the Owner has the right to terminate the contract unless and until the Owner is satisfied that the surviving partners are capable of executing and completing the remaining contract. In case of termination of contract, the legal representatives of the deceased Contractor are not entitled for any compensation or claim. Also, the Owner shall not levy any penalty against the damage caused by incomplete work.

- v) Termination of Contract in part or in full for CONTRACTORS default: If the Contractor fails to execute the work in the manner described in the contract documents or if he at any time, in the opinion of the Owner:
- a) Fails to carry out the works in accordance with the contract conditions or as per the specifications mentioned in the documents.
 - b) Stops the execution of works without giving prior information to the Owner.
 - c) Fails to carry out the works to the satisfaction of the Owner both with respect to qualities and time schedule.
 - d) Fails to supply sufficient or suitable tools, tackles, materials and labours etc.
 - e) Commits breach of any of the provisions of the contract.
 - f) Abandons the work.
 - g) Becomes bankrupt during the continuance of the work.

The Owner can terminate the contract in part or in full.

16. DELAY IN WORK EXECUTION DUE TO REASONS BEYOND CONTRACTOR'S CONTROL

- 16.1 Force majeure: If the execution of work is delayed due to force majeure, then Owner as per the affected period may extend the time period.
- 16.2 In case work is delayed due to non-availability of stores supplied by Owner or any decision by Owner holding the progress of work, the contractor then upon any such happening causing delay shall immediately but not later than 10 days, give notice thereof in writing to the Owner, but nevertheless use constantly his best effort to prevent or make good delay. The Owner may in his discretion grant such extension of time as may appear reasonable to him and the same shall be communicated to the

contractor in writing and shall be final and binding on him and the contractor shall be bound to complete the work within such extended time

17.COMMITMENT OF CONTRACTOR

1. Interpretation of Contract documents:
2. All the documents forming part of the contract are to be taken as mutually explanatory, supplementary and complementary to each other. If there is any error, omission or discrepancy in any of them, it shall be brought to the notice of the Owner. The decision of the Owner shall be final and binding. The Contractor shall execute the work accordingly.
3. The Contractor shall examine all the contract documents thoroughly including the scope, nature and magnitude of works he has to execute in accordance with the contract documents.
4. There may be change in layout of site as per technical requirements and the Contractor shall not be entitled for any claim due to such changes & should carry out such changes.

18.STAFF AND WORKERS

The Contractor shall depute qualified engineers for execution of the project. The technical staff employed by the Contractor shall be responsible for the quality and workmanship of the work as per the satisfaction of the Owner. The Contractor's supervisory staff should follow the instructions given by Owner or his authorised representative. If any of the Contractor's staff members is incapable or in-experienced, in the opinion of the Owner, then he should be removed immediately and the Contractor should do suitable substitution.

Technical staff employed should be degree holder from a government-recognized institution or equivalent with at least 3 years practical experience of work in addition to Diploma holders and other experienced supervisory staff.

If the workers or the supervising staff of the Contractor are involved in riotous or illegal activities to such an extent that it becomes necessary to hand over the matter to the police then the Contractor would be solely responsible for the case and all the expenses incurred in the legal proceedings shall be borne by the Contractor.

19.CO-OPERATION WITH OTHER AGENCIES AT SITE

The Contractor or his authorised representatives must work in close co-operation with the agencies executing other works forming the part of the project and also with the representatives of the Owner for the execution of works which are not included in the contract. Contractor shall permit free access and generally afford reasonable facilities to other agencies or departmental workmen etc.

The Contractor's quoted amount/rate shall be deemed to cater for all the above contingencies and nothing extra shall be admissible on this account.

Contractor should keep his working site clean and the materials brought for work shall be kept in a properly stacked / stored way. The work site should be swept at the end of each working day after removal of debris / left over materials. The Contractor has to take full care so as not to spoil or damage other Contractor's/ Owner's job / material.

20.SAFETY OF ADJOINING PROPERTIES

The Contractor or his authorised representatives should conduct all the operations necessary for the execution of works in such a manner that no inconvenience / damage is caused to the properties of other persons & Owner.

21.SETTLEMENT OF DISPUTES

Any disputes or differences or questions or claims arising under or relating to or touching this agreement shall be referred for arbitration to a Sole Arbitrator under the provisions of the Arbitration and Conciliation Act 1996 or any statutory modification or re-enactment thereof for the time be in force. The award passed by the arbitrator shall be final and binding on the parties hereto.

The contract shall be deemed to have been concluded at Thiruvananthapuram, Kerala and suits and proceedings, if any, shall be only in the courts of competent jurisdiction in Thiruvananthapuram.

The venue of arbitration shall be the place from where the contract is issued.

22. EXECUTION OF WORK

General:

All the works shall be executed in accordance with the detailed drawings, specifications and instructions to be given by the Owner or mentioned in the contract document.

Drawings:

The drawings given in the tender document are as per our present requirement and are meant for the purpose of giving idea of the type and quantum of work to be executed. The Contractor has to examine the existing machines at Owner's facility and discuss with Owner for the exact requirement. He should execute the work as per the detailed working drawings given to him from time to time for execution.

Inadequate/substandard works:

If any work executed by the Contractor is found to be of bad workmanship or not as per the drawings, then the same is to be dismantled and re-executed by the Contractor without claiming any extra payment or extension in time period.

Default of Contractor in compliance:

If the Contractor or his authorised representative fails to follow the instructions given by the Owner regarding any of the works, then the same shall be got executed by other persons employed by the Owner and the expenses incurred shall be borne by the Contractor.

Discrepancies between instructions:

If any discrepancy occurs between the various instructions conveyed to Contractor or his authorised representative or if any misunderstanding arises between the Contractor's staff and Owner's staff, the Contractor shall report the matter immediately to the Owner. The decisions of Owner shall be final and binding. Moreover, no claims for losses due to discrepancies between instructions, doubts or misunderstandings shall be admissible.

Change in specifications:

If there is any variation in specification or any change in make of item, then it has got to be approved from the Owner prior to installation or execution. The rate for the works not mentioned in the schedule will be derived from the rates of similar works mentioned in the schedule of work.

Work not specified in the specification:

If, for any work, no specification has been given in the tender document, then the work will be executed as per the IS specifications, and if the work is not covered by IS specifications also, then it should be executed as per standard engineering practice, subject to the approval of the Owner.

23. LIABILITIES FOR DEFECTS AND RECTIFICATIONS

If it shall appear to the Owner that any work has been executed with imperfect or unskilled workman, or of quality inferior to that contracted for, or otherwise not in accordance with the contract, the Contractor shall on demand in writing from the Owner or his representative specifying the work, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct that work so specified at his own charges and cost, and in the event of failure to do so within a period to be specified by the Owner or his demand aforesaid, the Owner may on expiry of notice period rectify or remove, re-execute the work at the risk of Contractor and the cost shall be recovered from the Contractor. The decision of the Owner as to any question arising under this clause shall be final and conclusive.

24. CARE OF WORKS

From the commencement to the completion of works, the Contractor shall take full responsibility for the care of all works including all temporary works and in case any damage or loss occurs then the Contractor shall at his own cost repair and make good the same so that on completion of the work, the same shall be in good order in every respect in accordance with the contract and to the satisfaction of the Owner.

25. LABOUR LAWS AND SAFETY REGULATIONS

Labour Laws:

- i) Labourers below the age of 18 years shall not be employed on the work.
- ii) The Contractor shall not pay less than what is specified by the law to labourers engaged by him on the work.
- iii) The Contractor shall, at his own expenses, comply with all labour laws and the Owner shall not be responsible for any recovery/penalty imposed by the respective authorities for violating the labour laws.
- iv) If the Contractor is covered under the Contract Labour (Regulation & Abolition) Act, he shall obtain a license from the licensing authority (i.e. the Office of Labour Commissioner), by payment of the necessary prescribed fee and deposit, if any, before starting the work.
- v) The Contractor shall furnish to the Owner, the details of the workers employed on the works.
- vi) The Contractor shall comply with the provisions of the existing rules and regulations relating to labour laws.
- vii) The Owner shall on a report having been made by an inspecting officer as defined in Contract Labour (Regulation and Abolition) Act, 1980, have the power to deduct from the amount due to the Contractor any sum required or estimated to be required for making good the losses suffered by a worker or workers by reason of non-fulfillment of the conditions of the contract for the benefit of the workers, or if deductions made from his or their wages which are not justified by the terms of contract or non-observance of the said regulations.

Minor Accident on Duty:

For cases of minor accident on duty not covered under compensation by insurance, the Contractor shall have to compensate the affected person by reimbursing these medical expenses against submission of actual expenditure document. The absence from duty, if takes place, due to such accident shall be considered as special leave and full payment shall have to be made for duration of such absence.

Provident Fund:

It shall be solely the Contractor's responsibility to complete all provident fund formalities as per statutory regulations.

26. SAFETY CODE:

Safety and Protection:

The Contractor shall adhere to safe construction practice and guard against hazardous and unsafe working conditions. While carrying out the work, the Contractor should provide for;

- i) Safety of personnel engaged in the construction.
- ii) Protection and safety of works and materials during their progress.
- iii) Sanitary and hygienic conditions of working and living for his workers, as required by the Owner.

Use of Safety Gadgets:

The Contractor shall have to ensure availability and use of all desired safety gadgets like safety belts, helmets, goggles, hand gloves etc.

Unsafe working condition:

If any activity is found to be progressing without proper and complete safety measures (including use of safety gadgets) being implemented, the Contractor may be asked to stop the work unless he fulfills the desired safety norms. Such delays shall not be allowed to be considered for extension in duration of the allotted time period.

First Aid:

The Contractor shall provide first aid facilities for his employees and those of his sub-CONTRACTORS. The requisite first aid box and medicines should always be available at work site.

Contractor's Barricades:

The Contractor shall erect and maintain barricades required in connection with his operations to guard or protect: -

- i) Excavations
- ii) Hoisting Areas
- iii) Areas adjudged hazardous by the Contractor's or Owner's representatives.
- iv) Charged electrical panels.
- v) Owner's existing property liable to get damaged by Contractor's operation.

Preservation of peace:

The Contractor shall take precautions to prevent any riotous or unlawful behavior by his workers, for the preservation of peace and protection of inhabitants and the security of property in the neighborhood of the work.

27. DETAILS OF WORK EXECUTION

- i) The work shall be done in such a manner so as to clear work front availability for other agencies working at site.
- ii) Finish of work shall be as per drawings & details given by Owner.
- iii) In general the complete work is to be done as per Indian Standard and esthetical norms as specified and detailed in Tender.

28. ELECTRICITY & WATER

Electricity and Water charges for fabrication works will be borne by HLL.

29. CONTRACTOR'S SCOPE OF SUPPLY

All consumables required for executing the jobs specified in the Schedule of Work, inclusive of welding gases, protective gears, all tools, tackles, scaffolding, consumables & testing equipments shall be procured and supplied by the Contractor at his own cost except for any items specified as Owner supplied.

30. RECOVERY FROM THE CONTRACTOR

- i) If the Contractor or his employees damage or destroy the property of the Owner, then the same shall be replaced/ refunded by the Contractor; otherwise the expenses may be recovered from his bill or security deposit.
- ii) All compensation & recoveries to be made as per terms of the contract shall be deducted from the Contractor's bill or security deposit.
- iii) Forfeiture of Security Deposit: Whenever any claim against the Contractor is to be recovered then the same may be made from the security deposit. If the Contractor abandons the work or leaves the work incomplete, then the Owner has the right to forfeit the security deposit.

31. SPECIAL INSTRUCTIONS

- a) The work should be carried out in truly professional manner, neatly finished with proper line, level and plumb. Cleanliness and finishing of the job is of utmost importance. Hence the job should be done most carefully with best workmanship. For all finishing jobs samples should be approved from the Owner before completely executing the work.
- b) The Owner should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job before actual execution of particular item having discrepancy.
- c) Any item found to be having been executed with poor workmanship then the Contractor shall have to rectify /reconstruct the work as specified by Owner. No extra charge will be admissible in such case. If CONTRACTORS fails to do so, the Owner reserves the right to rectify/reconstruct the work through some other agency at the expenses of Contractor.
- d) The schedule of activities as submitted by the Contractor shall have to be strictly adhered to. Regular progress reports shall have to be submitted by the Contractor giving all details for monitoring of the schedule.
- e) Special care is to be taken for cleanliness of the site. After the end of day's work, the site should be cleaned immediately.
- f) The Contractor shall have to co-operate with the agencies executing other works in the same area.
- g) While executing the work, the Contractor shall ensure safety and security of the property of the Owner so as to avoid theft etc.

32. SECRECY

HLL Lifecare Limited is the sole owner of the technology, equipment specification and drawings given along with the bidding document and to be given to the Contractor. The details given to bidders and Contractor should be kept confidential and should not be used for any other purpose or should not be used or transferred to third party. The Contractor has to sign a secrecy agreement with the Owner.

SCHEDULE III

DETAILED SPECIFICATION OF CONDOM MOULDING MACHINE

Sub: - Fabrication, Assembly, Leading, Installation, Integration and Commissioning of 4 Nos. Condom Moulding Machines on turnkey basis for the manufacture of male condoms at our Factories in Kerala/ Karnataka.

Note: - The specifications given below are for one machine as per Drawing No. M 200000-MM/C/0037 enclosed.

- I.** Name of Equipment : **AUTOMATIC MOULDING MACHINE**
- Quantity Required : 4 Nos
 - Type : Continuous Dip-Moulding and Wet stripping.
 - **Constructional details** : **As per Drg. No. M 200000-MM/C/0037**
 - Dimensions : 48035 L x 2800 W x 3100 H (mm).
- II. Conveyor System** : Chain Conveyor System, Sprockets and two pairs of endless chains.
Chain conveyor speed: - 6.9 to 11.5 m/min.
(Conveyor should smoothly run through the contour in the above mentioned speed)
- a. Front sprocket and its attachments: Pitch-38.1, No: of teeth 54,
Location - E Block.
Bearings, Pillow block bearings with sleeves and covers, coupling shaft, speed reducer

(Cyclo reducer) – Cyclo drive type
(1/231 ratio) – 1 No, belt drive,
segmental rack with rod, etc. complete.

- b. Middle sprocket and its attachments: Pitch-38.1, No: of teeth 56,
Location –D Block. Bearings, Pillow
block bearings with sleeves and covers,
coupling shaft, tension unit, etc.
complete.
 - c. Rear sprocket and its attachments: Pitch-38.1, No: of teeth 84,
Location – A Block.
Bearings, Pillow block bearings with
sleeves and covers, shaft, tension unit,
Speed reducer (Cyclo reducer) – Cyclo
drive type 1/231 ratio – 1 No, belt drive,
etc. complete.
 - d. Variable speed Motor : 2HP, 3 Phase, 4 Pole,1500rpm with IP-66
class Induction Motor and Gland packing.
Two analog inputs, three fixed and four
programmable digital inputs one analog
output integral PID functionally integral
RS 485 and RS 232 communication.
Ambient Temperature: - 10 to 50° C
Sensor less vector control, for high
torque over a wide speed ranges with
panel mount type liner display unit
- Quantity : 2 Nos.

- e. **Conveyor Chain** : Approx.122 m x 2 nos. (244 m)
- No. of slats : 3200 pcs. +/- 5 pcs
- f. Rail guide and fixing accessories : For the chain conveyor contour-rails machined bright rods (25x16) mm and (16x16) mm, Angle iron (50x50x6) mm and (65x65x6) mm, Flat (12x6) mm, Straight rack, guide, chain guards (SS 304),etc complete.
- g. Glass Mould Assembly : 3200 sets +/- 5 pcs
- i. Moulds : Make-BOROSIL Glass, Round Tubular Length-370mm, diameter-35mm with nipple.
- ii Mould holder : Phenol resin with special rubber packing with Rubber Washer & Polypropylene Washer.

Scope of Fabricator: - The Fabrication Contractor should fabricate the contour rails for the chain conveyor –In the A, B, C, D & E blocks both bottom & top using machined bright rods (25x16) mm and (16x16) mm, Angle iron (50x50x6) mm and (65x65x6) mm, Flat (12x6) mm, Straight rack, guide, chain guards (SS 304), etc complete. He should assemble, install and integrate the contour with front sprocket, middle sprocket, rear sprocket and provide the conveyor chain. The conveyor chains shall be driven by 2 Nos of 2 HP induction motors through cyclo reducers of reduction ratio 1:231 as mentioned above. The 3200 nos. (approx) of moulds with mould holders will be fixed to these chains. The fabricator should ensure the smooth running of chain through this contour, at No Load (without moulds) the current consumption should not exceed 1.8A and the maximum current consumption should not exceed 2.6A while running at a conveyor speed of 160 moulds per minute with moulds.

III A-Block Assembly

Dimension	:	7500 L x 2800 W x 3100 H mm
a. Swelling room		
i) Material – Frame	:	CS (IS 226)
Inner covering	:	Aluminium, 20 gauge & Buffed quality
Outer covering	:	CRCA, 16 gauge
Insulation (hot)	:	50 mm thick, density-128Kg/m ³ , Mineral wool mattress
Inside flooring	:	Tiled flooring (as per requirement)
Top of the Moulding Section	:	Walking-platform with Chequered plate (6 Mm thick), hand rails and ladder (CS- IS226)
Door (Aluminium Section)	:	Double door - 2 Nos, Single door - 1 No.
Windows	:	4 nos.
Illumination (Waterproof, Reflector Type & concealed)	:	Single Tube light fitting 36W (4ft) – 4 Nos. Single Tube light fitting 18W (2ft) – 2 Nos.
b. Swelling tank with overflow drain etc complete		
Dimension	:	6200 L x 510 W x 300 H mm (inside)
Type	:	Inner water bath type
Capacity with partition	:	500 Ltrs.
Material	:	SS 304, 2mm thick
Frame	:	CS (IS226)
c. Elevator for Tank	:	Worm & Worm wheels, screw shaft, shafts, Bearings, Pillow block bearings, couplings, gearboxes, etc complete

- Electric Motor : 2HP, 3 Phase,4Pole, Induction Motor, 1500rpm with IP66 class and Gland packing
- Warming and cooling : By supply of either steam or cooling water by valve control
- d. Dosing pump : 1No., flow rate: 100 to 500 ml/minute with operating panel, Graduated FRP tank of 100 Ltrs capacity, etc complete.
- e. Drip receiver with drain out : 1 No., SS 304 & PVC flume from drip receiver to swelling tank.
- f. Thermometer for swelling : 1 No. Alcohol filled tube (0 to 100⁰C)
- g. Tank cover : Vinyl Sheet of 6500L x 700 W, thickness as per requirement.
- h. Operating panel for swelling tank: The panel should be complete with up and down control for elevating motor with proximity switches, one power socket, emergency stop, etc complete.

Scope of Fabricator: - The Fabrication Contractor should fabricate the swelling room with frame CS (IS226) outer covering CRCA sheet (16 G) inner aluminium 20G, buffed quality with hot insulation, 50 mm thick mineral mattress of density 128 Kg per m3. Walking platform on the top with doors and windows as specified. Illumination of water proof reflector type and concealed shall be provided.

The fabricator should also assemble, install and integrate swelling tank with elevator system, heating and cooling system for warming and cooling the Ammonia solution, dosing pump, drip receiver with drain out, thermometer for swelling tank, operating panel etc as mentioned above.

IV B -Block Assembly

Dimension : 9100 L x 1400 W x 3100 H mm
 Frame Materials : CS (IS 226)

a. **Antisticking tank** with over flow, drain out and valves etc complete

Dimensions : 1500 L x 510 W x 300 H (mm)
 Capacity : 120 Ltrs.
 Tank Material : SS 304, 2mm thick
 Frame Material : SS 304

b. Dosing pump : 1No, flow rate: 30 to 500 ml/minute with operating panel, Graduated FRP tank of 100 Ltrs capacity.

c. Thermometer : 1 No. Alcohol filled type (0 to 100 °C)

V Stripping unit

a. **Stripping tank** with drain out, valves, slurry guards, etc. complete

Type : Pressurized spray type
 Material : SS 304, 2mm thick
 Dimensions : 1300 L x 1610W x 630 H (mm)
 Discharge Pressure : 1.2 to 2 kg/cm²

b. Nozzle for water spray and valves: 2 Nos. SS 304

Nozzle material : SS 304

c. Slurry nozzle : 4 Nos.

Material : SS 304

Hose from header to nozzle : PVC Braided type, 25NB diameter.

d. **Slurry Header**

Material : SS 304
 Valve Make : ASAHI-Japan Make & 3 piece construction.
 No. of valves : 20 NB x 6 Nos., 15 NB x 1No.

- e. Pressure gauge : 0 to 5 Kg/cm², diaphragm type.
Material : SS 304
- f. Slurry Line (i) : 50 NB, SS 304 Pipe Sch 40 for slurry, from slurry pump to slurry header with all accessories
(ii) : 90mm PVC Pipe (Rating-10kg/cm²) from either side of the slurry tank to dehydrator, with all accessories and supporting structures.
- g. Waste stripping tank with drain out and valves etc. complete
Material : SS 304, 2mm thick
Dimension : 400 L x 540 W x 620 H (mm)
Water nozzle : SS 304, 2 nos.
- h. Waste collector with tray : SS 304
SS Flume from stripping tank to Antisticking tank and stripping tank to waste stripping unit etc. complete.
- i. Mould washing tank with overflow, drain out and valves, etc. complete.
Tank Dimensions : 2300 L x 510 W x 380 H (mm) {top length 2300mm and base length 1300mm}
Tank material : FRP (BISPHYL RESIN)
Frame material : SS 304
Media for heating : Steam
Thermometer : 1 No. Alcohol filled type (0 to 100 °C)

j. **Root Brush**

Quantity	:	4 Nos., Belt drive
Material	:	Bristled nylon 66 grade with PP Base
Diameter	:	230 mm
Speed	:	750 rpm
Electric Motor	:	2Nos, 0.5KW, 4 Pole, 3 Phase,1500rpm belt driven with IP66 class and gland packing , connecting by pulley with SS cover.

k. Water drips receiver

Material	:	SS 304, 2mm thick
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SS flume from waste stripping to mould washing tank and drip receiver to washing tank.

Scope of Fabricator: - The Fabrication Contractor should fabricate the B block structure with frame CS (IS 226), assemble, install and integrate dosing pump, stripping unit (consisting of stripping tank, slurry header, slurry line from stripping pump, slurry nozzles, hose, PVC pipe for product flow on both sides from the slurry stripping tank to the dehydrator etc), waste stripping unit, waste collector with tray, mould washing tank, root brushes, waste water receiver, SS flume etc as mentioned above.

VI. **C-Block with all accessories**

Dimension	:	9850 L x 1700 W x 3900 H mm
Material	:	CS (IS 226)

a. **Mould Brushing Unit**

Type	:	Rotary disc brush
Quantity	:	2 Nos.
Type of drive	:	Belt

Material	:	Nylon bristle 66 grade with PP Base
Speed of disk	:	140 rpm (Body brush)
Diameter	:	330mm x 6 pairs, 250mm x 4 pairs
Electric Motor	:	2Nos,0.5 KW,4 pole, 3 Phase,1500rpm belt driven with IP66 class and Gland packing connecting by pulley with SS cover.
Reducer	:	10:1 (Worm & Wheel type),A200 Model as per requirement.
Chain drive to intermediate Shaft	:	2 Nos with idle sprocket for tension adjustment.
Material for Protective cover	:	Acrylic (folding type),3 mm thick sheet. (Transparent)

The unit should be complete with pillow block bearings, bearings, fixtures for brush unit, coupling etc complete.

- | | | |
|--------------------|---|---|
| Top of the C-Block | : | Walking-platform with chequered plate (6 mm thick), hand rails and two ladders(CS- IS226) |
|--------------------|---|---|
- b. **Hot water rinse unit** : Drain out connection from water saving tank to recycling drain etc complete.
1. Hot water rinse receiver with water saving tank
- | | | |
|-------------------------------------|---|-----------------------------|
| Material | : | SS 304, 4mm thick |
| Dimensions inside water saving tank | : | 1300 L x 610 W x 260 H (mm) |
2. 20NB SS 304,Sch. 40 pipe of two nos each on both sides as per requirement.
- c. **Hot water filtration Unit (pressure vessel)** with all accessories
- | | | |
|------------------|---|---------------------------------------|
| Dimension | : | 350 Ø x 680 H (mm) (approximate) |
| Material | : | SS 304, thickness as per requirement. |
| Filtration level | : | 5 µ, metallic strainer |

- d. **Mould drying booth** :
- Type : Semi closed box type
- Material for Inner wall : SS 304, 20gauge, Buffed quality.
- Material for outer wall : CRCA Sheet, 16gauge.
- Insulation (Hot) : Mineral wool mattress,50 mm thick & density 128 Kg/m³
- Flume (SS-304) : 8 Nos.
- Flume (PVC) : 2 Nos.
- Temperature dial gauge : 0 to 150⁰ C
1. **Heat Exchanger**
- Air Quantity : 15m³/min
- Steam Pressure : 8 kg/cm²
- Air Inlet : 90⁰C
- Air outlet : 150⁰C
2. **Blower**
- Type : Centrifugal Backward Curved
- Volume : 900 CMH(15M³/min)
- Fan speed : 2614 rpm
- Motor : 1 No,1HP, 4Pole, 3Phase, 1500rpm with IP66 class Induction Motor and Gland packing Interconnecting with suitable ducting.
3. **Heating coil** : 6 Nos. or as per requirement.
4. The unit should be complete with control panel with all accessories.
- e. Water drips receiver with drain & valve, etc complete : 1 No.
- Material : SS 304

Scope of Fabricator: - The Fabrication Contractor should fabricate the C block structure with frame CS (IS 226), assemble, install and integrate mould brushing unit, hot water rinse unit, hot water filtration unit, mould drying booth (consists of heat exchanger, blower, heating coil, water drip receiver) etc. as specified above.

VII D-Block (Mould Cooling Room) :

- | | | | |
|----|---------------------------------|---|---|
| | Dimension | : | 8000 L x 1500 W x 3100 H mm |
| a. | Cooling booth | | |
| | Material inner covering | : | SS 304, 20gauge, Buffed quality. |
| | Outer covering | : | CRCA, 16 gauge. |
| | Frame | : | CS (IS 226) |
| | Insulation (Cold) | : | Polyurethane, 50mm thick & Density-32Kg/m ³ |
| b. | Heat Exchanger | | |
| | Dimensions | : | 800 L x 350 W x 800 H mm |
| | Type | : | Flat fin type tube |
| | Material | : | Tube – Copper, Fins – Aluminium |
| | Cooling surface | : | 61m ² |
| c. | Cold air filtration unit | | |
| | Type | : | Box type |
| | Material | : | SS 304, CRCA sheet |
| | Insulation (Cold) | : | Polyurethane, 50mm thick & density 32 Kg/m ³ |
| | Area | : | 4m ² |
| d. | Cooling fan (Blower) | : | |
| | Type | : | Turbo type |
| | Capacity | : | 80m ³ /min |
| | Pressure | : | 150 mm aq. |

Electric Motor	:	1No, 5HP, 4 pole, 3 Phase, Belt driven, 1500rpm with IP66 class induction motor and gland packing.
e. Drip Collector	:	2 Nos, SS 304
f. Distributor	:	Nozzles, deflectors
Material	:	SS 304, 2mm thick

The block includes provision for 3 times dipping which consists of 3-dip tank, elevating mechanism for double-line tank, cold air blower, hot air blower, level control valve, latex supply tank etc. complete

Scope of Fabricator: - The Fabrication Contractor should fabricate the C block structure with frame CS (IS 226), assemble, install and integrate cooling booth, heat exchanger, cold air filtration unit, cooling fan (blower), drip collector, distributor etc. as specified above.

VIII E -Block (Dipping Room)

Dimension	:	11060 L x 2800 W x 3100 H mm
Material Inner covering	:	SS 304, 24gauge
Material Outer covering	:	CRCA sheet, 16gauge, Buffed quality
Frame	:	CS (IS 226)
Insulation	:	Mineral wool, 50mm thick & density 128Kg/m ³
Illumination (Water Proof, Reflector Type & concealed)	:	Single Tube light fitting 36W (4ft) – 8 Nos Single Tube light fitting 18W (2ft) – 1 Nos
Inside dipping room (floor) platform:	:	Vitrified Tiles (Industrial Type)
Top of Room	:	Working-platform with chequered plate & Hand rails, CS (IS 226)
Double doors	:	2 Nos

- Single door : 1 No
- b. **Dipping tank** with over flow, drain out, other attachments, etc complete.
- Type : Jacketed
- Capacity : 700 Ltrs.
- Tank Material : SS 304
- Frame Material : CS(IS226)
- Insulation : Polyurethane, 50mm thick & density-32Kg/m³
- Cladding : SS 304, 20 gauge, Buffed quality
- Operation panel for Dipping tank; Control for elevating motor (up& down) with proximity switches, Agitators, cooling fan, illumination, power plug, emergency stop, etc complete.
- c. Dipping tank Agitator with SS covering
- Quantity : 2 sets
- Geared motor : Belt drive 150 rpm, 440V, 50Hz, 2HP, 3Phase, 4Pole, 1500rpm with IP66 class Induction Motor and Gland packing.
- d. Elevating Unit for Dipping Tank : Worm & Worm wheels, gears, screw shaft bearings, pillow block bearings, hand wheel, shafts etc. complete
- e. Elevating device of Dipping rail : Worm & Worm wheels, gears, screw shaft bearings, pillow block bearings, hand wheel, shafts etc. complete
- f. Latex line : From Supply tank to Dipping tank by auto feeding and all accessories with PVC Braided type 20 mm interconnecting pipe lines (changes may occur as per site conditions).

- g. Ammonia line : 1% Ammonia line to Dipping tank and all accessories with PVC Braided type 15 mm, PVC threaded pipe 15 mm interconnecting pipe lines (changes may occur as per site conditions)
- h. Chilled/Process/Hot water line : Chilled/Process/Hot Water line to dipping tank jacket by auto control with Rotameter.
Overflow sump, its drain with all accessories and interconnecting pipe lines (changes may occur as per site conditions).
- i. Fixtures for latex level sensor : SS 304
- j. Rotameter : Range 4 - 41.5 LPM.
- k. Main operation panel for control of hot air fan, Chain conveyor meter and supply to washing unit, Dipping unit, beading unit, swelling unit, illumination, chemical feed pump, linear speedometer, etc complete
- l. Temperature Control panel: Complete with temperature recorder, temperature controller for hot air unit, drying (2 Nos) and nine steam solenoid valves, etc complete
- m. Automatic control panel for dipping room.

Scope of Fabricator: - The Fabrication Contractor should fabricate the dipping room with frame CS (IS 226) outer covering CRCA sheet (16 G) inner SS 304, 24G, buffed quality with hot insulation, 50 mm thick mineral mattress of density 128 Kg per m³. Working platform with Chequered plate and handrails on the top, doors and windows as specified. Illumination of water proof reflector type and concealed shall be provided.

The fabricator should also assemble, install and integrate dipping tank with elevator system, agitator with covering, elevator device for dipping rail, latex line, ammonia line, chilled/process/hot water line, fixture for latex level sensor, rotameter, main operating panel, temperature control panel, automatic control panel for dipping room etc complete as mentioned above.

IX. F Block (Dipping End)

- | | | |
|---|---|--|
| Dimension | : | 2400 L x 2700 W x 3100 H mm |
| a. Supporting structure for Hot air supply unit | | |
| Material | : | CS (IS 226) |
| b. Hot air supply unit | : | |
| 1. AC Variable Frequency Drive | : | 2HP, 3 Phase, 4 Pole, 1500rpm with IP-66 class Induction Motor and Gland packing. Two analog inputs, three fixed and four programmable digital inputs one analog output integral PID functionally integral RS 485 and RS 232 communication. Ambient Temperature: - -10 to 50° C Sensor less vector control, for high torque over a wide speed ranges with panel mount type liner display unit. |
| 2. Hot air blower | | |
| Capacity | : | 15 m ³ /min |
| Pressure | : | 100mm aq.(as per requirement) |
| Working Temp | : | 150° C |
| 3. Heat Exchanger | | |
| Material | : | Tube – Copper, Fins – Aluminium |
| Type | : | Wire wound |
| Flow rate | : | 15 M ³ /min |

Inlet temp	:	85 ° C
Outlet temp	:	150 ° C
4. Hot air filter	:	Filter area 1 m ²
5. Ducting		
Frame	:	CS (IS 226)
Outer cover	:	CRCA Sheet, 16 gauge
Inner	:	SS 304, 20 gauge
Insulation	:	Mineral wool, 50mm thick & density- 128 Kg/m ³
6. Dehumidifier		
Process Airflow	:	1500 CMH (cubic meter/hour)
Process ESP	:	200 Pa
Process Motor	:	1.5 KW
React Airflow	:	500 CMH
React ESP	:	150 Pa
React Motor	:	0.75 KW
React Heater	:	Steam Heater

Connections from the chamber in E Block to steam heater, Heat Exchanger to Blower, Blower to Filter and Filter to Chamber with Dampers and connection of dehumidifier to hot air unit with duct and all other accessories complete.

Scope of Fabricator: - The fabricator should fabricate the F block structure with frame CS (IS 226), assemble, install and integrate hot air supply unit with variable frequency drive, hot air blower, heat exchanger, dehumidifier, hot air filter, connected ducting etc. as specified above.

X. Drying Chambers C, D, E :

a. E Block

- i. Duct, Dampers etc : Hot air recycling
- ii Flange joint : Air duct connection
- iii Manholes with cover
- iv Fixtures for illumination, steam coils, rails
- v Windows
- vi Partition plate
- vii Steam coils
- viii Illumination etc

Material

- i. Inner wall : SS 304, 20 gauge, Buffed quality
- ii outer wall : CRCA, 16 gauge Sheet
- iii Frame : CS (IS 226)
- iv Partition plate : SS 304, 1.5mm thick
- v Insulation : Mineral wool, 75mm thick & density- 128 Kg/m³

b. D Block

- i. Duct, Dampers etc : Hot air recycling
- ii Flange joint : Air duct connection
- iii Manholes with cover
- iv Fixtures for illumination, steam coils, rails
- v Windows
- vi Partition plate
- vii Steam coils & Illumination etc

Material

- i. Inner wall : SS 304, 20 gauge, Buffed quality
- ii outer wall : CRCA, 16 gauge Sheet
- iii Frame : CS (IS 226)

- iv Partition plate : SS 304, 1.5mm thick
- v. Insulation : Mineral wool, 50mm thick & density- 128 Kg/m³
- vi Ventilating fan with fixture
- c. **C Block**
 - i. Duct, Dampers etc : Hot air recycling
 - ii Flange joint : Air duct connection
 - iii Manholes with cover
 - iv Fixtures for illumination, steam coils, rails
 - v Windows
 - vi Partition plate
 - vii Steam coils
 - viii Illumination etc
- Material**
 - i. Inner wall : SS 304, 20 gauge, Buffed quality
 - ii outer wall : CRCA, 16 gauge Sheet
 - iii Frame : CS (IS 226)
 - iv Partition plate : SS 304, 1.5mm thick
 - v. Insulation : Mineral wool, 50mm thick & density - 128 Kg/m³
- XI Drying Chambers AO, A&B** :
 - a) B Block
 - i. Flange joint : Air duct connection
 - ii Manhole and cover
 - iii Steam coils
 - iv Fixtures for steam coils and rails
 - v Partition plate
 - vi Illumination etc

Materials

- i. Inner wall : SS 304, 20 gauge, Buffed quality
 - ii outer wall : CRCA, 16 gauge sheet
 - iii Frame : CS (IS 226)
 - iv Insulation : Mineral wool, 50mm thick & density- 128 Kg/m³
 - v Partition plate : SS 304, 1.5mm thick
- b) AO, A Block
- i. Flange joint : Air duct connection
 - ii Manhole and cover
 - iii Fixtures for rails
 - iv Windows
 - v Partition plate
 - vi Illumination etc

Materials

- Inner wall : Aluminium Sheet, 20 gauge, Buffed quality
- Outer wall : CRCA, 16 gauge sheet
- Frame : CS (IS 226)
- Insulation : Mineral wool,50mm thick, density- 128 Kg/m³

Scope of Fabricator: - The fabricator should fabricate the drying chambers at the top of each blocks with frame CS (IS 226), outer cover CRCA 16 G sheet, inner SS 304, 1.5 mm thick for C, D & E blocks and Aluminium 20G for AO, A & B blocks, Hot insulation with mineral mattress of density 128 Kg/m³. The fabrication includes providing flange joint, Manhole & cover, ventilating fan with fixture, windows, installation of steam coils, rails, partition plates, Illumination etc., as mentioned above.

XII Edge rolling Device

- i. Electric Motors : 2Nos, 0.8HP,1500rpm,3Phase,4Pole with IP66 class Induction Motor and Gland packing.
- ii. Speed variators : 50 to 200 rpm, Rating – 1HP
- iii. Edge Roller Brush (Beading Brush) (Small & Big)
- iv. Separate panel boards should be provided for left and right edge rolling units for controlling the motors and ventilating fans.

Parts

Couplings, sprockets, chain, V Belt, V pulleys, spiral gears, bevel gears, tension pulleys, bearing housings, bearings, pillow block bearings, shafts, Adjust screws and sliding arrangements, supporting fixtures, chequerd plate, platform, hand rails, straight rack and fixtures, bridge etc. complete.

The fabricator should assemble, install and integrate edge-rolling unit as mentioned above.

XIII Steam cover-1 with fixtures :
Material : SS 304, 1.5mm thickness

X1V Steam cover-2 with fixtures :
Material : SS 304, 1.5mm thickness

XV Dehydrator Unit : 2 Nos
Type : Rotary mesh barrel

Materials

- i. Mesh : SS 316, 4 mesh, 18 gauge.
SS 316, 3 mesh, 16 gauge.
- ii. Tray & Chute : SS 304
- iii. Hot air chamber cover and doors : AC sheet, SS 304
- iv. Pillow block bearings : UCP 315

- v Plummer block bearings with sleeves : SN 3038 with 23038K(with sleeve) bearing
- vi Reducers : 20:1, MODEL-A287
- vii Sprockets, chain
- viii V pulleys & belts etc. complete
- Motor : 1HP,4 pole, 3 Phase,1500rpm with IP66class Induction Motor and gland packing
- Main structure : CS (IS 226)

- XVI Slurry tank unit : 1 No**
 Agitator drive with motor, dosing pumps, slurry pumps (2 Nos) with suction and discharge lines, pressure-gauge in the delivery point of the slurry pump, valves, interconnecting pipes and all other accessories, etc complete.
 - a. Slurry tank
 - Dimension : 1050 L x 1050 B x 3100 H (mm)
 - Tank Material : SS 304, 2mm thick
 - b. Agitator : 1 No:,1HP,3 phase,4Pole,1500rpm with IP66 class Induction motor and gland packing with gearbox output speed–180 rpm. Propeller, propeller shaft & supporting structure (SS 304) etc. complete. Material for propeller and propeller shaft SS 316.
 - c. Slurry pump : 2 Nos, Type self priming centrifugal pump
 Capacity – 40m³/hr
 Head – 10 to 15 mtrs of water.
 Material of Construction – Cast steel

body with SS 316 internals. Liquid – total Solid 6% pH-8 to 9.Temp. - 50⁰C (TSP is providing, so change will take place).

7.5HP, 3Phase, 4Pole,
1500rpm,Induction Motor, Common base plate, coupling, etc complete.

- a. Control panel for slurry supply unit: Complete with motor controls for stripping pumps, agitator motor, power plug, supply to feed pump, etc complete.

The fabricator should assemble, install and integrate dehydrator unit (2nos), slurry tank unit (2nos) etc. as mentioned above.

XVII Painting

- : 1) A,B,C,D & E Blocks with epoxy/polyurethane paint other than SS parts.
- 2) Outside of the drying chamber with Enamel paint after coating anticorrosive primer other than SS parts.
- 3) Inside of drying chamber with heat Resistant Aluminium paint other than SS parts.
- 4) Other equipments color as per HLL's requirements like panel board etc..

The fabricator should do the painting as mentioned above. HLL will supply the paint.

NOTE: -

- 1. Given specification are indicative only. The Bidder should visit the plant and see the machines and also take their own assessments before the 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 Fabrication Contractor shall provide all the manpower, equipments, tools such as welding (TIG/ARC) and gas cutting equipments, forming/bending machines, drilling & grinding machines, other tools & tackles and consumables such as welding rods, cutting gas, drill bits, taps, dies etc required for completing the work successfully in time. The work should be carried out as per the specifications and to the complete satisfaction of HLL officials. HLL will provide all the drawings, materials, fasteners, paint, primer etc. required for the work.***

- 3. The Fabrication Contractor has to fabricate the machines block wise in an identified location provided by HLL Lifecare Limited and then assemble all blocks and conduct trial run. After the successful trial run, the machines has to be dismantled block wise and then each block has to be lead to the proposed location, assemble, install and commission the condom moulding machines to the satisfaction of the Purchaser.***

SCHEDULE IV							
SCHEDULE OF WORK							
SUB: FABRICATION, ASSEMBLY, LEADING, INSTALLATION, INTEGRATION AND COMMISSIONING OF 4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS AS PER DRAWING NO. M 200000-MM/C/0037 - REG.							
SL.NO.	ITEM DESCRIPTION	QTY.	UNIT	IN KERALA		IN KARNATAKA	
				RATE IN RS	TOTAL AMOUNT IN RS	RATE IN RS	TOTAL AMOUNT IN RS
I	FABRICATION AND INSTALLATION OF STRUCTURE AND SUPPORTS (IS 2062)	160000	KG				
II	FABRICATION & INSTALLATION OF COVERING WITH CRCA 16 G SHEET	4000	SQ. MTR				
III	FABRICATION & INSTALLATION OF ALUMINIUM BUFFED QUALITY 20G COVER	1600	SQ. MTR				
IV	FABRICATION & INSTALLATION OF SS 304, LESS THAN 1.6 MM THICK SHEETS	3200	SQ. MTR				
V	FABRICATION & INSTALLATION OF SS 304, 1.6MM THICK COVER	3200	SQ. MTR				
VI	FABRICATION & INSTALLATION OF SS304/SS316 COMPONENTS (INCLUDING STRUCTURAL SUPPORTS)	2000	KG				
VII	INSTALLATION OF HOT INSULATION OF DENSITY 128 KG/M3	4000	SQ. MTR				
VIII	INSTALLATION OF COLD INSULATION (POLYURETHANE, 50 mm THICK AND DENSITY 32 KG/M3)	800	SQ. MTR				
IX	FIXING OF LIGHT FITTINGS FOR ILLUMINATION INSIDE THE MACHINE	200	NOS				
X	PAINTING AS PER SPECIFICATIONS	20000	SQ MTR				
XI	BLOCK A						
1	ASSEMBLY, INSTALLATION AND INTEGRATION OF SWELLING TANK WITH ELEVATING SYSTEM	8	LS				
2	FABRICATION AND FIXING OF DRIP RECEIVER WITH DRAIN	8	LS				
3	FABRICATION AND INSTALLATION OF ALUMINIUM DOOR IN THE SWELLING ROOM (SINGLE DOOR - 900 mm(W) X 1900 mm(H))	8	NO				
4	FABRICATION AND INSTALLATION OF THE SWELLING ROOM DOUBLE DOOR (1700 mm (W) x 1900 mm (H))	16	NO				
5	FABRICATION AND INSTALLATION OF WINDOWS (850 mm x 650 mm)	32	NO				
7	FIXING OF OPERATING PANEL	8	LS				
8	FIXING OF SWITCH BOARD	8	LS				

SCHEDULE IV							
SCHEDULE OF WORK							
SUB:	FABRICATION, ASSEMBLY, LEADING, INSTALLATION, INTEGRATION AND COMMISSIONING OF 4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS AS PER DRAWING NO. M 200000-MM/C/0037 - REG.						
SL.NO.	ITEM DESCRIPTION	QTY.	UNIT	IN KERALA		IN KARNATAKA	
				RATE IN RS	TOTAL AMOUNT IN RS	RATE IN RS	TOTAL AMOUNT IN RS
XII	BLOCK B						
1	INSTALLATION AND INTEGRATION OF DOSING PUMP	8	LS				
2	INSTALLATION AND INTEGRATION OF ANISTICKING TANK	8	LS				
3	INSTALLATION AND INTEGRATION OF STRIPPING UNIT (CONSISTING OF STRIPPING TANK, SLURRY HEADER, SLURRY NOZZLES, HOSE ETC)	8	LS				
4	INSTALLATION AND INTEGRATION OF SLURRY LINE FROM STRIPPING PUMP, SLURRY HEADER, SLURRY LINE INCLUDING FLANGE JOINTS ETC (SS 304)	8	LS				
5	INSTALLATION AND INTEGRATION OF PVC PIPE FOR PRODUCT FLOW ON BOTH SIDES FROM THE SLURRY STRIPPING TANK TO THE DEHYDRATOR	8	LS				
6	INSTALLATION AND INTEGRATION OF WASTE STRIPPING UNIT, WASTE COLLECTOR WITH TRAY ETC	8	LS				
7	INSTALLATION AND INTEGRATION OF MOULD WASHING TANK	8	LS				
8	INSTALLATION AND INTEGRATION OF ROOT BRUSHES	8	LS				
9	INSTALLATION AND INTEGRATION OF WASTE WATER RECEIVER	8	LS				
10	FABRICATION AND INSTALLATION OF SS FLUMES FOR COLLECTING DRIP WATER	8	LS				
XIII	BLOCK C						
1	INSTALLATION AND INTEGRATION OF MOULD BRUSHING UNIT	8	SET				
2	INSTALLATION AND INTEGRATION OF HOT WATER RINSE UNIT	8	LS				
3	INSTALLATION OF SS FLUMES & TRAYS	8	SET				
4	INSTALLATION AND INTEGRATION OF EDGE ROLLING UNIT	8	SET				
5	FABRICATION AND INSTALLATION OF WINDOWS (850 mm x 650 mm)	32	NO				

SCHEDULE IV							
SCHEDULE OF WORK							
SUB: FABRICATION, ASSEMBLY, LEADING, INSTALLATION, INTEGRATION AND COMMISSIONING OF 4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS AS PER DRAWING NO. M 200000-MM/C/0037 - REG.							
SL.NO.	ITEM DESCRIPTION	QTY.	UNIT	IN KERALA		IN KARNATAKA	
				RATE IN RS	TOTAL AMOUNT IN RS	RATE IN RS	TOTAL AMOUNT IN RS
XIV	BLOCK D						
1	INSTALLATION AND INTEGRATION OF COOLING FAN (BLOWER)	8	LS				
2	INSTALLATION AND INTEGRATION OF HEAT EXCHANGER (COLD AIR)	8	LS				
3	ASSEMBLY, INSTALLATION AND INTEGRATION OF ADDITIONAL (3RD) DIP TANK WITH ELEVATOR SYSTEM, HOT AIR BLOWER, COLD AIR BLOWER, LEVEL CONTROL MECHANISM FOR DIP TANK & SUPPLY TANK,	4	LS				
4	INSTALLATION AND INTEGRATION OF COLD AIR FILTRATION UNIT	8	LS				
5	INSTALLATION AND INTEGRATION OF DRIP COLLECTOR	24	SET				
6	INSTALLATION AND INTEGRATION OF DISTRIBUTOR	8	LS				
7	FABRICATION AND INSTALLATION OF WINDOWS (850 mm x 650 mm)	64	NO				
XV	BLOCK E						
1	ASSEMBLY, INSTALLATION AND INTEGRATION OF DIPPING TANK WITH ELEVATOR SYSTEM	8	LS				
2	ASSEMBLY, INSTALLATION AND INTEGRATION OF ELEVATOR DEVICE FOR DIPPING RAIL	8	LS				
3	INSTALLATION AND INTEGRATION OF FIXTURE FOR LATEX LEVEL SENSOR	16	NO				
4	FIXING OF MAIN OPERATING PANEL	8	LS				
5	FIXING OF TEMPERATURE CONTROL PANEL	8	LS				
6	FIXING OF AUTOMATIC CONTROL PANEL FOR DIPPING ROOM	8	LS				
7	FIXING OF DIPPING ROOM/COOLING FAN OPERATING PANEL	8	LS				
8	FABRICATION AND INSTALLATION OF ALUMINIUM DOOR (SINGLE DOOR - 900 mm(W) X 1900 mm(H))	8	NO				
9	FABRICATION AND INSTALLATION OF DOUBLE DOOR (1700 mm (W) x 1900 mm (H))	16	NO				
10	FABRICATION AND INSTALLATION OF WINDOWS (850 mm x 650 mm)	96	NO				

SCHEDULE IV							
SCHEDULE OF WORK							
SUB: FABRICATION, ASSEMBLY, LEADING, INSTALLATION, INTEGRATION AND COMMISSIONING OF 4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS AS PER DRAWING NO. M 200000-MM/C/0037 - REG.							
SL.NO.	ITEM DESCRIPTION	QTY.	UNIT	IN KERALA		IN KARNATAKA	
				RATE IN RS	TOTAL AMOUNT IN RS	RATE IN RS	TOTAL AMOUNT IN RS
XVI	BLOCK F						
1	ASSEMBLY, INSTALLATION AND INTEGRATION OF HOT AIR SUPPLY UNIT , VARIABLE FREQUENCY DRIVE (CONSISTS OF HEAT EXCHANGER, BLOWER, VFD, HOT AIR FILTERS ETC)	8	LS				
2	ASSEMBLY, INSTALLATION AND INTEGRATION OF DEHUMIDIFIER	8	LS				
3	ASSEMBLY, INSTALLATION AND INTEGRATION OF CONNECTED DUCTING INCLUDING 16G, SS304 CHUTE SUITABLY FOR HOT AIR SUPPLY & RETURN COMPLETE.	8	LS				
XVII	CONVEYER CHAIN						
1	FABRICATION OF CONTOUR FOR CHAIN CONVEYER USING MACHINED BRIGHT RODS (25X16) MM AND (16X16) MM, ANGLE IRON (50X50X6) MM AND (65X65X6) MM, FLAT (12X6) MM, T SECTION (50 X 50 X 6)	64000	KG				
2	FIXING UP OF STRAIGHT RACK	8	SET				
3	FIXING OF SEGMENTAL RACK	8	SET				
4	INSTALLATION OF CONVEYOR CHAIN	8	LS				
5	FABRICATING AND FIXING OF CHAIN GAURDS (SS304)	800	mtrs				
6	INTEGRATION OF CONTOUR WITH FRONT SPROCKET, MIDDLE SPROCKET, REAR SPROCKET	8	LS				
7	FIXING UP OF MOULD HOLDERS WITH MOULD (3200 NOS APPROX) TO THE CHAIN.	8	LS				
8	ASSEMBLY AND FIXING UP OF DRIVING UNITS (FRONT AND REAR) CONSISTS OF 2 HP INDUCTION MOTORIZED CYCLO REDUCERS (2 NOS EACH) WITH SLIDING ARRANGEMENT	8	LS				

SCHEDULE IV							
SCHEDULE OF WORK							
SUB: FABRICATION, ASSEMBLY, LEADING, INSTALLATION, INTEGRATION AND COMMISSIONING OF 4 NOS. CONDOM MOULDING MACHINES ON A TURNKEY BASIS AS PER DRAWING NO. M 200000-MM/C/0037 - REG.							
SL.NO.	ITEM DESCRIPTION	QTY.	UNIT	IN KERALA		IN KARNATAKA	
				RATE IN RS	TOTAL AMOUNT IN RS	RATE IN RS	TOTAL AMOUNT IN RS
XVIII	DRYING/COOLING CHAMBERS						
1	ASSEMBLY, INSTALLATION AND INTEGRATION OF DRYING/COOLING CHAMBERS	96	NOS				
2	PROVIDING MANHOLES WITH COVER	40	NOS				
3	INSTALLATION OF PARTITION PLATES (SS 304)	112	NOS				
4	FABRICATION AND INSTALLATION OF WINDOWS (1000 mm x 800 mm)	64	NO				
5	INSTALLATION OF VENTILATING FAN WITH FIXTURE	40	NOS				
6	INSTALLATION OF STEAM COILS OF VARIOUS SIZES	224	NOS				
XIX	ASSEMBLY, INSTALLATION AND INTEGRATION OF DEHYDRATOR UNIT	16	NO				
XX	ASSEMBLY, INSTALLATION AND INTEGRATION OF SLURRY TANK UNIT	8	NO				
XXI	ASSEMBLY, INSTALLATION AND INTEGRATION OF HOT AIR SUPPLY UNIT	4	NO				
XXII	LEADING AND POSITIONING	250	TONNES/MTR				
XXIII	ERECTION AND COMMISSIONING	250	TONNES				
TOTAL AMOUNT IN RS							
APPLICABLE TAXES & LEVIES							
GROSS AMOUNT IN RS (including taxes)							
(IN WORDS)							
I agree to execute the works as per the schedule at the rates quoted by me as above							
SIGNATURE OF THE CONTRACTOR							

ANNEXURE V

STAMP PAPER AGREEMENT FORMAT

AN AGREEMENT made this the _____ day of _____ 2012/13 between M/S _____ here in after called the CONTRACTOR which expression shall include its executors, administrators, legal representative and assigns of the first part and **M/S. HLL LIFECARE LIMITED** (here in after called the OWNER) of the second part. WHEREAS the OWNER is desirous of ----- at ----- as per Drawings & specifications of the Owner and the CONTRACTOR has/have by his/their tender dated _____ as amended by the CONTRACTOR's letter no. _____ dated _____ after negotiation offered to execute and fully complete the above work in the OWNER'S Premises for the Owner as set forth in the tender or as amended and Conditions of Bid, General Conditions of Contract, Detailed Specifications, Schedule of Work, ISI specification, drawings, according to the terms and conditions contained there in for a total sum of Rs. _____ (Rupees _____) and the OWNER has accepted such item rate/percentage rate/Lump sum tender in terms of his letter no. /dtd. _____.

SIG.OF THE OWNER

SIG.OF THE CONTRACTOR

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS

1. The CONTRACTOR covenant/s and agree/s with the OWNER that the CONTRACTOR/S with in the time of **TWELVE** Months from the date stipulated in the acceptance letter shall execute and fully complete all the works specified described or referred to in and by the said tender or as amended according to the true intent and meaning of the said tender or as amended and as per the Conditions of Bid, General Conditions of Contract, Detailed Specifications, Schedule of Work, ISI specification, drawings, & Instructions issued from time to time.

The CONTRACTOR covenant/s and agree/s with the OWNER to truly observe perform fulfill & submit to the said terms obligations and conditions referred above. Incase the CONTRACTOR fails to execute the work in the manner described in the General conditions of Contract or stops the execution of work or fails to carry out the works to the satisfaction of the OWNER with respect to quantity, quality and time schedule or abandons the work or becomes bankrupt then the OWNER will have right to terminate the contract and get the remaining work executed at the risk and cost of the CONTRACTOR. It is agreed that time is of the essence of this contract. Incase the work is not completed in the manner mentioned above to the complete satisfaction of the OWNER in every respect within the aforesaid time limit of **TWELVE** months from the date stipulated in the Work Order the CONTRACTOR/S agree/s to pay compensation of ½% of the value of the contract sum for each week of delay beyond the date stipulated for completion subject however to a maximum of 7.5% of the total value of the Contract sum.

2. In consideration of the satisfactory work executed by the CONTRACTOR/s with the provisions as stated above the OWNER covenant/s with the CONTRACTOR/S that it will pay to the CONTRACTOR/S from time to time in accordance with the Schedule Bill of quantities and various terms and conditions as contained in General Conditions of the contract, provided always that whether or not a work is satisfactory shall be decided by the OWNER and its decision in this behalf shall be final and binding.

3. Service Tax & other applicable taxes or taxes as result of subsequent orders/ordinances/acts as issued by the State or Central Govt. from time to time shall be borne by the CONTRACTOR/S.
4. The CONTRACTOR shall abide by and shall be responsible for all statutory provisions of the Law such as labour laws & safety regulations etc.
5. This agreement further witnesseth that the CONTRACTOR/S hereby covenant/s with the OWNER that in the event of the nonfulfilment in any respect by the CONTRACTOR/s of the said covenant/s terms, agreements, obligations and conditions on the part of the CONTRACTOR/S, the CONTRACTOR shall pay on demand to the OWNER all losses, damages, costs, charges and expenses as the OWNER may be directly or indirectly put to in consequence of such non fulfillment of contract by the CONTRACTOR/S.
6. In the event of any dispute arising out of or in connection with the arbitration proceedings, or any proceedings being taken subsequent to the arbitration proceedings, it is further agreed that only the courts in Thiruvananthapuram, Kerala shall have the sole jurisdiction in the matter.
7. The following documents are deemed to form part of the agreement, namely the tender, the priced Schedule of Work, the drawings issued for the work, Conditions of Bid, General Conditions of Contract, Detailed Specifications, Schedule of Work, all of which for the purpose of identification have been signed on behalf of the OWNER and by the CONTRACTOR/S. The relevant ISI will also form part of this agreement. The letter of Acceptance and their amendment etc. shall also form part of the agreement.
8. The agreement further witnesseth that the CONTRACTORS is responsible for any accident or other compensations payable to the workmen employed by and working under the control of CONTRACTORS, that the OWNER has no liability in the matter and that if any payment would have to be made by the OWNER, the same shall be re-imbursed by the CONTRACTORS on demand and or recovered from the dues of the CONTRACTORS. In witnesses whereof the said parties here to have here unto set their hands.

9. The OWNER is the sole owner of the technology, equipment specification and drawings given along with the bidding document and to be given to the CONTRACTOR. The details given to CONTRACTOR should be kept confidential and should not be used for any other purpose or should not be used or transferred to third party.

FOR & ON BEHALF OF HLL LIFECARE LIMITED,

SIG.OF THE OWNER

SIGN.OF THE CONTRACTOR

Date:

Witnesses:

Witnesses:

1. _____

1. _____

2. _____

2. _____