

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, AND
COMMISSIONING OF**

**4 NOS. BUTTERFLY TYPE DOUBLE LINE AUTOMATIC CONDOM
DIPPING MACHINES ON A TURNKEY BASIS**

**FOR THE MANUFACTURE OF MALE CONDOMS AT OUR
FACTORIES IN KERALA AND KARNATAKA**

IFB No : HLL/CED/CON-AUG/FABN/DM/2013

Date : 10-05-2013

HLL LIFECARE LIMITED
(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/FABN/DM/2013

Date : 10-05-2013

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 and Commissioning of Butterfly Type Double Line Automatic Condom Dipping Machines, on turnkey basis for the manufacture of male condoms, 2 nos each at our Factories in Kerala and Karnataka.	4	2,10,000/-

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 50Lacs 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.1Crore.

3. 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 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 - 14-05-2013 onwards.
 - b) Last date and time for receipt of bids - 03-06-2013 up to 15.00 Hrs.
 - c) Date and time of opening of bids - 03-06-2013 , 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.

6. 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 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.

ASSOCIATE VICE PRESIDENT (CED)

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 or 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.
- 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 and Commissioning of 4 Nos. Butterfly Type Automatic Double Line Condom Dipping Machines on turnkey basis for the manufacture of male condoms, 2nos. each at our Factory sites in Kerala and Karnataka”** 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

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,
 - (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.

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,

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 the Associate Vice President (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 factory in Kerala and Karnataka to be installed in the factory.

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 **FIVE 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 carryout 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 DIPPING MACHINE

Sub: - Fabrication, Assembly, Leading, Installation and Commissioning of Butterfly Type Double Line Automatic Condom Dipping 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. HLL- CED – B2- 001 enclosed.

- | | | | |
|----|---------------------------------|---|--|
| I. | Name of Equipment | : | AUTOMATIC DIPPING MACHINE |
| | ➤ Quantity Required | : | 2 Nos each at Kerala and Karnataka |
| | ➤ Type | : | Continuous Dip-Moulding and Wet stripping. |
| | ➤ Constructional details | : | As per Drg. No. HLL-CED-B2-001 |
| | ➤ Dimensions | : | 36500 L x 15100 W x 2590 H (mm). |

- | | | |
|---------------------------------------|---|--|
| II. Conveyor System | : | Chain Conveyor System, Sprockets and one pairs of Endless roller chains connected together to hold the mould holders. Chain conveyor speed: - 5.8 to 8.4 m/min.
(Conveyor should smoothly run through the contour in the above mentioned speed) |
| a) Front sprocket and its attachments | : | Quantity – 2No.s,Pitch-70, No: of teeth 21,Location - G Block.
Bearings, Pillow block bearings with sleeves and covers, shaft, |

Geared Motor	:	
Type	:	Helical- Bevel
Make	:	Lenze/Rossi/Nord/SEW /Sumitomo
Rating	:	2.2 KW.
Power Input	:	3 Phase AC
Reduction Ratio	:	249:1
Output rpm	:	5.84
Output shaft	:	Hollow
Gear box Design	:	Horizontal foot mounting
b. Rear sprocket and its attachments	:	Quantity – 2No.s,Pitch-70, No: of teeth 21,Location –A Block. Bearings, Pillow block bearings with sleeves and covers, tensioner unit, etc. complete.
c. Conveyor Chain	:	Approx. 145m x 2 nos Pitch :70 mm Alignment Track Fixation Former Rotation Curve Clearance
d) Rail guide and fixing accessories	:	For the chain conveyor contour- 30 X 30 X 4MM SS304 Angle , 30 X 6 MM Poly Amide Rail, 8MM SS304 Rod,
e. Glass Mould Assembly	:	2080pc's +/- 5 pcs
i. Moulds	:	Make-BOROSIL Glass, Round
ii Mould holder	:	Quantity – 2080No.s,Nylon 66 spinner including SS shaft and 6882RS, Nylon 66 Hull, O-rings 33.5 X 37.45 X 5.3MM

Scope of Fabricator: - The Fabrication Contractor should fabricate the contour rails for the chain conveyor –In the A, B, C, D, E, F & G blocks both bottom & top using SS 304 Angle section (30x30x4) mm and 30X6mm Poly amide rail etc complete. He should assemble, install and integrate the contour with front sprocket and rear sprocket and provide the conveyor chain. The conveyor chains shall be driven by 3HP motorised gearbox of reduction ratio 1: 249 as mentioned above. The 2080 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 the limiting values at the maximum conveyor speed of 120 moulds per minute with moulds.

III A-Block Assembly

Dimension	:	6400 Lx1510 Wx2090 H mm
a) Frame-	:	Square Tube 50 x 50 x 3.15 mm, & 38 x 38 x 3.15 mm Material AISI 316 buffed quality
b) Rear Sprocket	:	2 No.s
Material	:	EN8
Pitch	:	70mm.
No.of teeth	:	21no.s
Shaft	:	Dia.60mm
c) Pillow block bearing	:	Bearing – 2313 K. C3 Housing – SNH – 613 – 516 Sleeve - H 2313 Ring – FBR 5/140 Seal – TSN 613 G Grease Nipple – M10 x 1
d) Leaching tank		
Dimension	:	4060 Lx1060 Wx352.5 H mm
Material	:	AISI 316L
e) Tensioning device	:	As per drawing
f) Heaters in Leaching tank	:	Immersing coil heaters
g) Top drying chamber		
Dimension	:	1000 Lx1220 Wx 410 H mm,5no.s
Material	:	AISI 316L,0.8MM (THK) Buffed quality
h) Heaters in Drying chamber	:	Nichrome coil heater

- i) Insulation for drying chamber : Hot insulation panel with infilled
50mm(thk) 100 kg/m³
csr(australia) rock wool

Scope of Fabricator: - The fabricator should fabricate the frame for A-Block and install and integrate the rear sprocket and accessories, leaching tank and accessories, drying chambers with insulation and heaters as mentioned above.

IV B-Block Assembly

- Dimension : 7000 Lx1510 Wx2090 H mm
- a) Frame- : Square Tube 50 x 50 x 3.15
mm, & 38 x 38 x 3.15 mm
Material: AISI 316L buffed
quality
- b) Stripping unit
Stripping tank with drain out, valves, etc. complete
- Type : Pressurized spray type
- Material : AISI 316L, 2mm thick
- Dimensions : 1300 L x 1610W x 630 H (mm)
- Discharge Pressure : 1.2 to 2 kg/cm²
- c) Nozzle for water spray and valves: 2 Nos. UPVC as per design
- Hose from header to nozzle : PVC Braided type, 15NB
diameter.
- d) Former washing brush : 2 No.s, Vertical
345mm L x 225mm Dia.
Bristle Dia :0.25 mm
Speed : 520-540 RPM
Motor : 0.25Kw 230/400Vac,670rpm
Size: 200x350 mm
Bristle Type :Nylon 66
Bristle Dia :0.25 mm

- Motor : 0.25Kw 230/400Vac,670rpm
- e)Former drying brush (Inclined) : Size: 160x270mm (1 pcs)
Size :200x350 mm(2pcs)
Bristle Type :Nylon 66
Bristle Dia :0.25 mm
Motor:0.37Kw230/400Vac,690rpm
- f) Top drying chamber
Dimension : 1000 Lx1220 Wx 410 H mm,7No.s
Material : AISI 316L.0.8MM (THK) Buffed quality
- h) Heaters in Drying chamber : Nichrome coil heater
- i)Insulation for drying chamber : Hot insulation panel with infilled 50mm(thk) 100 kg/m3
csr(australia) rock wool

Scope of Fabricator: - The fabricator should fabricate the frame for B-Block and install and integrate the stripping unit and accessories, former washing unit, hot water rinsing unit , former drying unit , top drying chambers with insulation and heaters as mentioned above.

V C-Block Assembly

- Dimension : 5000 Lx1510 Wx2090 H mm,
- a) Frame- : Square Tube 50 x 50 x 3.15 mm, & 38 x 38 x 3.15 mm
Material SS304 buffed quality
- b) Dipping tank with over flow, drain out, other attachments, etc complete.
Type : Double Jacketed
Size : 6M (L) X 0.76M (B) X 0.355M (H)
X 2.5MM (THK) - SS316
JACKETED WALL

- | | | |
|----------------|---|----------------------------------|
| Tank Material | : | AISI 316L |
| Frame Material | : | SS304 Buffed quality |
| Cladding | : | SS 304, 20 gauge, Buffed quality |
- c) Dipping tank Agitator with SS covering
- | | | |
|--------------|---|---|
| Quantity | : | 1 set |
| Direct drive | : | Motor (Direct Drive) - 0.18 kw
220-240/380-415 VAC 0.69/0-55A
Power Factor 0.78
Agitator As drawing No.ST
106(Review)
Speed :48 RPM |
- d) Top drying chamber
- | | | |
|-----------|---|---|
| Dimension | : | 5000 Lx1220 Wx 410 H mm,5No.s |
| Material | : | AISI 316L.0.8MM (THK) Buffed
quality |
- e) Heaters in Drying chamber : Nichrome coil heaters
- i)Insulation for drying chamber : Hot insulation panel with infilled
50mm(thk) 100 kg/m³
csr(australia) rock wool

Scope of Fabricator: - The fabricator should fabricate the frame for C- Block and install and integrate the dipping tank with agitator, top drying chambers with insulation and heaters as mentioned above.

VI D-Block Assembly

- | | | |
|-----------|---|-------------------------|
| Dimension | : | 5000 Lx1510 Wx2090 H mm |
|-----------|---|-------------------------|
- a) Frame-
- | | | |
|--|---|--|
| | : | Square Tube 50 x 50 x 3.15
mm, & 38 x 38 x 3.15 mm
Material SS304 buffed quality |
|--|---|--|
- b)Ist intermediate drying chamber
- | | | |
|----------|---|---------|
| Quantity | : | 12 No.s |
|----------|---|---------|

- | | | |
|-----------|---|---|
| Dimension | : | 930 Lx500 Wx 400 H mm |
| Material | : | AISI 316L.0.8MM (THK)
Buffed quality |
- f) Top drying chamber
- | | | |
|-----------|---|---|
| Dimension | : | 1000 Lx1220 Wx 410 H mm, 5 No.s |
| Material | : | AISI 316L.0.8MM (THK) Buffed
quality |
- e) Heaters in Drying chamber :
- Nichrome coil heaters
- i) Insulation for drying chamber :
- Hot insulation panel with infilled
50mm(thk) 100 kg/m³
csr(australia) rock wool
- f) Axial fan
- | | | |
|----------|---|---|
| Quantity | : | 3 Sets
Axial ventilator, 1.5μF Capacitor,
1300 rpm, 0.06 kW |
|----------|---|---|
- g) Blower
- | | | |
|----------|---|---|
| Quantity | : | 2 Sets
Radial Blower, radial ventilator, 8μF
Capacitor, 1200 rpm, 0.12 kW |
|----------|---|---|
- h) Dehumidifier :
- 1 set Dry air make as per drawing.

Scope of Fabricator: - The fabricator should fabricate the frame for D- Block and install and integrate the intermediate drying chambers and heaters, blowers, axial fans, dehumidifier with ducting and top drying chambers with insulation and as mentioned above.

VII E- Block Assembly

- | | | |
|-----------|---|---|
| Dimension | : | 5000 Lx1510 Wx2090 H mm |
| a) Frame- | : | Square Tube 50 x 50 x 3.15
mm, & 38 x 38 x 3.15 mm |

Material SS304 buffed quality

b) **Dipping tank** with over flow, drain out, other attachments, etc complete.

Type	:	Double Jacketed
Size	:	6M (L) X 0.76M (B) X 0.355M (H) X 2.5MM (THK) - SS316 JACKETED WALL
Tank Material	:	AISI 316L
Frame Material	:	SS304 Buffed quality
Cladding	:	SS 304, 20 gauge, Buffed quality

c. Dipping tank Agitator with SS covering

Quantity	:	2 sets
Direct drive	:	Motor (Direct Drive) - 0.18 kw 220-240/380-415 VAC 0.69/0-55A Power Factor 0.78 Agitator As drawing No.ST 106(Review) Speed :48 RPM

d) **Top drying chamber**

Dimension	:	1000 Lx1220 Wx 410 H mm,5No.s
Material	:	AISI 316L.0.8MM (THK) Buffed Quality with hot insulation as per specification

e) **Heaters in Drying chamber** : Nichrome coil heaters

i) **Insulation for drying chamber** : Hot insulation panel with infilled
50mm(thk) 100 kg/m³
csr(australia) rock wool

Scope of Fabricator: - The fabricator should fabricate the frame for E- Block and install and integrate the dipping tank with agitator and top drying chambers with insulation and as mentioned above.

VIII F - Block Assembly

Dimension : 6000 Lx1510 Wx2090 H mm
 a) **Frame-** : Square Tube 50 x 50 x 3.15 mm, & 38 x 38 x 3.15 mm
 Material SS304 buffed quality

b)1st intermediate drying chamber

Quantity : 12 No.s
 Dimension : 930 Lx500 Wx 400 H mm
 Material : AISI 316L.0.8MM (THK)
 Buffed quality

c)Top drying chamber

Dimension : 1000 Lx1220 Wx 410 H mm,6 No.s
 Material : AISI 316L.0.8MM (THK) Buffed quality

d) **Heaters in Drying chamber** : Nichrome coil heaters

e) **Insulation for drying chamber** : Hot insulation panel with infilled 50mm(thk) 100 kg/m³ csr(australia) rock wool

Scope of Fabricator: - The fabricator should fabricate the frame for F - Block and install and integrate the intermediate drying chambers and heaters, beading unit and top drying chambers with insulation and as mentioned above.

IX G - Block Assembly

Dimension : 2100 Lx1510 Wx2050 H mm
 a) **Frame-** : Square Tube 50 x 50 x 3.15

mm, & 38 x 38 x 3.15 mm,
 80 x 50 x 5mm
 Material SS304 buffed quality

b) Main sprocket

Material : EN8
 Pitch : 70
 No.of teeth : 21

c) Main drive : Geared Motor :

Type : Helical- Bevel
 Make : Lenze/Rossi/Nord/SEW
 /Sumitomo
 Rating : 2.2 KW.
 Power Input : 3 Phase AC
 Reduction Ratio : 249:1
 Output rpm : 5.84
 Output shaft : Hollow
 Gear box Design : Horizontal foot mounting

Scope of Fabricator: - The fabricator should fabricate the frame for G - Block and install and integrate the main sprocket ,main drive motor and accessories and main panel board as mentioned above.

X Auxiliary lines

a)Ammonia line : 1% Ammonia line to Leaching 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)

b)Chilled/Process/Hot water line : Chilled/Process/Hot Water line to
 dipping tank jacket by auto control
 with electromagnetic solenoid valve.
 Overflow sump, its drain with all

accessories and interconnecting
pipe lines (changes may occur as
per site conditions).

XI	Wet tumbler Unit	:	2 Nos
	Type	:	Rotary mesh barrel
Materials			
i.	Mesh	:	AISI 316L, 4 mesh, 18 gauge. AISI 316L, 3 mesh, 16 gauge.
ii	Tray & Chute	:	AISI 316L
iv	Pillow block bearings	:	UCP 204
v	Roller guides with SS antifriction bearings	:	SS 6204ZZ
vi	Reducers	:	50:1
vii	Stripping tank		
	Dimension	:	1050 L x 1050 B x 3100 H (mm)
	Tank Material	:	SS 304, 2mm thick
viii	Stripping pump	:	4 horse power Groundforce pump-1Unit

XII Powdering unit

Agitator drive with motor, dosing pumps, circulating pump (2 Nos) with suction and discharge lines, valves, interconnecting pipes and all other accessories, etc complete.

Wet powdering Spiral barrel	:	2Nos
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.

- a. Control switches on the machine frame for stripping pumps, agitator motor, circulation pump, etc complete.

The fabricator should assemble, install and integrate wet tumbler unit, powdering unit and dehydrator unit 2nos each, Vulcanising unit (2nos) etc. as mentioned above.

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 blockwise 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 dipping machines to the satisfaction of the Purchaser.