

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

TENDER DOCUMENT
(PRICE BID)

FOR THE

SUPPLY, INSTALLATION, TESTING &
COMMISSIONING OF FIRE FIGHTING SYSTEM

FOR

NEW CONDOM MANUFACTURING FACILITY
AT RUBBER PARK, IRAPURAM, KOCHI

HLL LIFECARE LIMITED
(A Government of India Enterprise)
Project Division, Peroorkada. PO,
Thiruvananthapuram – 695005,
Kerala, India
Phn: 0471 – 2437270, 2437884
Fax: 0471 – 2432898, 2432647

INVITATION FOR BIDS (IFB)

IFB No: HLL/IP/IFC/FIREFIGHTING/2013
Date : 30-12-2013

HLL Lifecare Limited (HLL), a Government of India Enterprise, is setting up a new condom manufacturing facility at Rubber Park, Irapuram, Cochin. For the said project, Sealed and Super scribed bids are invited from competent and experienced Fire Fighting contractors who are capable to do the following work meeting the requirements as per our tender.

SI No	Name of Work	Estimated cost (PAC)	EMD Amount
1	Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications.	Rs 45 Lakhs	Rs 1 Lakh

2. Eligibility criteria for QUOTING:

- a) Tenderer should have minimum 5 years experience in the relevant field.
 - b) Tenderer should have satisfactorily completed at least two similar works value Rs. 25 Lakhs or above in the past three 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 Indian Rupees (INR) 25 Lakhs
3. A complete set of tender documents can be had from the Office of Projects Department at HLL Lifecare Limited, Peroorkada Factory, Thiruvananthapuram – 695 005 during office hours on any working day on submission of written application and a non-refundable fee of Rs.550/- (including taxes) in the form of DD drawn in favour of HLL Lifecare Limited, Trivandrum to the undersigned.

The Tender Documents can also be downloaded from our Website www.lifecarehll.com and the Central Public Procurement Portal of Government of India www.eprocure.gov.in from the date of issue of tender document. The tender fees shall be submitted along with the technical bids while submitting the offer.

Tender forms shall be filled in ink or typed. No tender filled in pencil shall be considered. The tenderer shall sign and seal the form at each page and at the end, in token of acceptance of all the terms and conditions of the tender. Any sub sequent changes /amendments will be published only in our website & CPP portal.

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

- a) Date of issue of tender document - 30-12-2013
- b) Last date and time for receipt of bids - 18-01-2014 at 15:00 Hrs
- c) Date and time of opening of bids - 18-01-2014 at 15:30 Hrs

5. Address for communication, receipt and Place of opening of bids.

EXECUTIVE DIRECTOR (INTERNAL PROJECTS)
HLL LIFECARE LIMITED, PEROORKADA,
THIRUVANANTHAPURAM – 695 005
KERALA, INDIA
Phn: 0471 – 2437270, 2437884
Fax: 0471 – 2432898, 2432647
E-mail: nnavikumar@lifecarehll.com, harikrishnankp@lifecarehll.com

6. The completed bid documents and all schedules should be submitted to **Executive Director (Internal Projects)** in the above address along with sealed bids and 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 above.
8. In the event of the date specified for bid receipt and opening being declared as a closed holiday for HLL's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
9. HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of the HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
10. HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by Telex/Fax/Telegraph will not be accepted.
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 tender without assigning any reason there of.

EXECUTIVE DIRECTOR (INTERNAL PROJECTS)

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SCHEDULE I

CONDITIONS OF BID

1. Definitions

In this Contract, the following words and expressions shall have the meanings as stated below:

- a. **"INVITATION FOR BID"** shall mean and include the present document, and such other complements and agenda, which may subsequently be issued in this connection.
- b. **"BIDDER/TENDERER"** shall mean the person, firm or Corporation submitting a bid against this invitation for bid and shall also include his agents and representatives.
- c. **"OWNER"** shall mean **HLL LIFECARE LIMITED (HLL)** (Thiruvananthapuram) or its units thereof.
- d. **'ENGINEER-IN-CHARGE'**, shall mean the Engineer appointed by the Owner to supervise all activities of the project.
- e. **'CONTRACTOR'**, shall mean the successful bidder whose tender has been accepted by the Owner and to whom the order is placed by the Owner and shall include his heirs, legal representatives, successors etc.
- f. **'PERMANENT WORKS'**, means and include all the work specified or set forth and required if any by the specification, drawings and other documents which form part of this contract or to be implied thereof or incidental thereof to be hereafter or required in such further explanatory instructions, drawings etc., as shall from time to time during the progress of the work be given by the HLL.
- g. **'SITE'**, shall mean the actual place i.e. **HLL LIFECARE LIMITED, RUBBER PARK, IRAPURAM, KOCHI**, where the project is to be executed.
- h. **'PROJECT'**, shall mean entire work specified in the contract documents inclusive of extra items/ extra quantities (if any) executed during the contract period.
- i. **'ACCEPTANCE LETTER'**, shall mean written consent by a letter of Owner to the bidder intimating him that his tender has been accepted.
- j. **'CONTRACT'**, shall mean the articles of Contract Agreement, the conditions of contract, schedule of quantities, specifications, drawings attached and duly signed by the Owner and the Contractor.
- k. **'DATE OF CONTRACT'**, shall mean the date on which the successful bidder has accepted the notification of award.
- l. **'CONTRACT PERIOD'**, shall mean the period (including rainy season) specified in the tender documents during which the contract shall be executed.
- m. **'COMPLETION CERTIFICATE'**, shall mean the certificate issued by the Owner to the Contractor after successful completion of the project.
- n. **'EXTRA ITEMS'**, are those items, which are not appearing in the Schedule of Items but required to be executed during the project period.

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. Enquiry No.
- b. Tender Fees
- c. Earnest Money Deposit as prescribed in the tender
- d. All the details and documents mentioned in the Technical Bid.
- e. Promised Completion Schedule
- f. Certificate that bid is in total conformity with the specifications and terms and conditions mentioned in the bid document and if not, list of exclusions, and/or exceptions.
- g. All other documents/certificate/information as specified in the bid document.

2.3 The Price Bid must be as per the following

- a) The bid is invited for **“Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi”** as per the Specification, Terms and Conditions specified in the Bid Documents. The Bidder shall give the rates inclusive of relevant taxes, duties, other levies, on the appropriate price schedule (**Schedule of Quantities**) attached to these documents for completing the above work as per the Specification, Terms and Conditions as specified in the Bid Documents.
- b) Bidder must quote for unit price and total price based on the requirement shown in the bid document.
- c) Price should be firm without any escalation on any account till the completion of work.

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

3. Format and Signing of Bid

3.1 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 technical details bringing out clearly in a separate sheet, the deviations in specifications if any, from that of ‘Technical Specifications’ and also clause-by-clause compliance of specifications and commercial terms and conditions and EMD, excluding price, 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 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 envelopes shall be:
- (a) Addressed to the Owner in the following address and
- EXECUTIVE DIRECTOR (INTERNAL PROJECTS)
HLL LIFECARE LIMITED, PEROORKADA,
THIRUVANANTHAPURAM – 695 005
KERALA, INDIA
Phn: 0471 – 2437270, 2437884
Fax: 0471 – 2432898, 2432647
E-mail: nnavikumar@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 ___ (Opening Date) _____
- 4.2 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.
- 4.3 Bids should be hand delivered or sent by courier/mail to ensure timely arrival. Telex, cable, e-mail or facsimile bids will be rejected.

Deadline for submission of Bids

- 4.4 The bids will be received by the Owner in the following address not later than the date and time specified in the Invitation for Bids.
- EXECUTIVE DIRECTOR (INTERNAL PROJECTS)
HLL LIFECARE LIMITED, PEROORKADA,
THIRUVANANTHAPURAM – 695 005
KERALA, INDIA
Phn: 0471 – 2437270, 2437884
Fax: 0471 – 2432898, 2432647
E-mail: nnavikumar@lifecarehll.com, harikrishnankp@lifecarehll.com
- 4.5 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 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.

- 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 Executive Director (Internal Projects), in the above address by the date and time stipulated for receipt as above failing which the bid would be considered late and rejected. The 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

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.

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. Amendments will also be uploaded on the website.
- 6.3 In order to afford prospective Bidders reasonable time in which to take the amendment into 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 its 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 its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the rate or substance of the bid shall be sought, offered or permitted.

9. Inspection of site

Every tenderer is expected to inspect the site of the proposed work and acquaint himself with the site conditions, approaches etc. before quoting his rates. No claim whatsoever should be entertained later on the plea of any difficulties involved in the execution of work, which was or was not foreseen by the tenderer.

10. Preliminary examination

- 10.1 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.
- 10.2 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 of unit price, the amount in words of unit price shall prevail.
- 10.3 Prior to the detailed evaluation, the Owner will determine the substantial responsiveness of each bid to the bidding documents. For purposes 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.
- 10.4 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.
- 10.5 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.
- 10.6 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.

11. Evaluation and comparison of bids.

- 11.1 The purchaser reserves the right to examine the details given in the technical bid by visiting the office and work place of the bidder and take decision based on the visit.
- 11.2 The purchaser 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.

12. Post – qualification

- 12.1 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.
- 12.2 The determination will take into account the Bidder's financial, technical and execution 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.
- 12.3 The Owner reserves the right to negotiate with the lowest evaluated responsive bidder.
- 12.4 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.

13. 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.

14. Notification of Award

- 14.1 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 Intent and/or Work order.
- 14.2 The signed acceptance of the notification of award by the Contractor will constitute a concluded contract.

15. Security Deposit & Execution of Agreement

- 15.1 On receipt of notification of award from the Owner, within thirty days the successful Bidder shall furnish the security deposit in the form of a Demand Draft from a nationalized bank drawn in favour of HLL Lifecare Limited, Peroorkada Thiruvananthapuram payable at Thiruvananthapuram for an amount equal to **5% of the contract price** on the value of the contract for his faithful execution of contract and shall execute an agreement with the Owner in the form attached on proper stamp paper.
- 15.2 The Security deposit should be valid until successful completion of the contract and acceptance and handing over of the works and will be released after acceptance of the work by the Owner.
- 15.3 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 event the Owner may make the award to the next lowest evaluated bidder or call for new bids.

16. Earnest Money

- 16.1 Each bid must be accompanied by E.M.D.
- 16.2 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, Peroorkada, 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.
- 16.3 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.

SCHEDULE: - II

GENERAL CONDITIONS OF CONTRACT

1.0 PROJECT INFORMATION

1.1 General:

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

1.2 Location of Site:

The project site is located at **HLL LIFECARE LIMITED, PLOT NO-1, RUBBER PARK, IRAPURAM, KOCHI.**

1.3 Price

Price quoted should be firm without any escalation till the Contract is completely executed and should be for the item/work shown under **SCHEDULE OF QUANTITIES.**

The rates quoted must be firm and include the cost of transportation of material to the site, all taxes such as Sales Tax, Excise duty and Octroi etc. and the fixing or placing in position for which the item of work is intended to be operated. The rates quoted by the Contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the contractor for any reason whatsoever.

It should be clearly understood that any claims for extra Sales Tax, Excise duty, Construction tax or any additional tax etc. shall not be entertained in any case whatsoever once tenders are opened.

1.4 Site Facilities:

The contractor has to remove all left over, excess, scrap material from the site and restore the site to fully clean condition as and when required. In case he fails to do so, the Owner reserve the right to remove such materials from the site and expenses incurred in this case shall be deducted from the payments due to the contractor. However, no claim for any loss of material in this case shall be acceptable.

2 COMMITMENT OF CONTRACTOR

2.1 Interpretation of Contract documents:

2.1.1. 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.

2.1.2 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.

2.1.3. The contractor shall visit the project site so as to study the site conditions, means of access to the site and other factors governing the works.

2.1.4. There may be change in layout of site as per technical requirements and the tenderer shall not be entitled for any claim due to such changes & should carry out such changes.

2.2 Delay in work execution due to reasons beyond contractor control

2.2. A 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.

2.2.B Owners supplied material 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.

2.3 Period of Completion

Time is the essence of the contract. Time of completion allowed is **TWO MONTHS** from the date of acceptance of **Letter Of Intent/Work Order**.

Time Schedule:

The successful tenderer shall submit the time schedule in the form of charts before commencing the work and shall execute the work strictly as per the schedule submitted by him and approved by the Owner on turnkey basis.

2.4 Compensation for delay:

Time is the essence of the contract. If the contractor fails to complete the work and clear the site on or before the dates fixed for completion, he shall without prejudice be liable to pay liquidation damage (LD) i.e. **0.5 % of the contract value for every week that the whole or the part of work remains incomplete**. For the purpose of this condition, the contract value shall be total value of quantities of items in the contract at contract rates plus algebraic sum of the subsequent work ordered. However, **the total amount of LD to be paid under this condition shall not exceed 7.5% percent of the contract value**.

2.5 Default of 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 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 Contractor 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 construction plant, 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.

Whenever the Owner shall exercise his authority to cancel the contract under the above condition, the Owner shall be at liberty to hold and retain in their hands materials, tackles, machinery and stores of all kinds on site as they may think proper and may at any time sell any of the materials, tackles, machinery and stores and apply the proceeds of sale in or towards the satisfaction of any loss which may arise from the cancellation of contract as aforesaid. The Owner shall also be at liberty to use materials, tackles, machinery and other stores on the site of contractor as they think proper in completing the work and the Contractor will be allowed the necessary credit. The value of materials and stores and amount of credit to be allowed for tackles and machinery belonging to Contractor and used by Owner in completing the work shall be assessed by the Owner and amount assessed shall be final and binding on the Contractor. In case Owner completes or decides to complete the work under the provisions of this condition, the cost of completion to be taken into account in determining the excess cost to be charged to the Contractor under the condition shall consist of the cost of materials purchased or required to be purchased, labour provided or required to be provided.

2.6 Variation in scope of works:

- a) Variation in quantity:

The Owner has the right to increase or decrease the quantity of work or delete/add certain items of work. However such changes shall not entitle the contractor for any compensation, claim regarding the change in scope of work.

b) Variation in drawings and specifications:

i) The variation in scope may be by way of changes in drawings regarding dimensions but specification remaining the same. In such a case the contractor shall not be entitled for any claim due to change.

ii) In case of change of specification it shall be worked out as given in Clause 3.8

2.7 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 the 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 holder 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.

2.8 Subletting of contract:

No subletting of contract is permitted. Specialized work agency contracts may be permitted with prior permission.

2.9 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.

2.10 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.

2.11 Safety of adjoining properties:

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

2.12 Settlement of dispute:

Any disputes or difference arising between the parties with respect to the performance of any part of this agreement or any thing connected therewith, etc shall as far as possible be mutually settled by the process of dialog and negotiation.

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

2.13 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.

2.14 Insurance:

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

i) Insurance of works:

The Contractor shall take full responsibility for loss, damage and care of plant and works until it is delivered to site, constructed, erected, commissioned and taken over by Owner. Without limiting such responsibility, the contractor shall in the interest of the work insure the plant and work for their full value plus ten percent until they have been taken over. Such insurance shall cover the equipments and works against loss, damage or destruction by fire, earthquake, theft or any other cause, throughout the duration of the contract period or extended contract period.

ii) Insurance of employees:

The Contractor shall accept full and exclusive liability for the compliance of all obligations and responsibilities imposed by the Employees State Insurance Act, 1948 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. 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 have been paid by him.

iii) 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.

iv) Transit Insurance:

The cost of transit insurance relating to the items to be transported by the contractor to the site of work shall be borne by the contractor and the quoted price shall be inclusive of this cost.

v) Loss or damage and Indemnity Agreement:

The contractor shall be responsible during the progress of work as well as maintenance 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 and the Engineer 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.

vi) 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 2.14.v here of. Such insurance shall be effected with an insurer and in terms approved by the Owner and for at least the amount stated in the Appendix of the Tender.

vii) The Contractor shall take **Contractor's All Risks Insurance (CAR)** 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.

Note: The Contractor's payment shall be clear only after his compliance of all insurance formalities as given above. He shall have to deposit the photocopies of the various policies and payment receipts with the Owner's site engineer for this purpose.

3.0 EXECUTION OF WORK

3.1 General:

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

3.2 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.

All working drawings shall be marked "Released for Execution" and duly signed and approved by the Owner. All the old drawings shall be discarded and marked with "Superseded by Drg. No....."

If during the execution of the work, any discrepancy occurs in the drawings or between the drawings and specification then the same should be clarified from the Owner prior to the execution of work. The decision given by the Owner would be final.

3.3 Inspection of works:

i) The Owner shall have the full authority to inspect the works at any time, at any stage. The contractor shall provide adequate facilities to carry the inspection work. The Contractor should present himself or his authorised representative during the inspection so that the Owner can convey the instruction regarding the works.

- ii) The Contractor shall give information to the Engineer in charge before covering up the works so that the same can be inspected and measured jointly & correctly to true dimensions.
- iii) If the contractor fails to get the work inspected before covering it up, then the Owner has full authority to get the work uncovered at the expense of the Contractor and if any fault is found then the same should be rectified by the Contractor without claiming any extra payment.

3.4 Inadequate/substandard works and materials:

- i) If any material brought by the Contractor is found unsuitable or of sub-standard quality after testing, then the Contractor shall remove those faulty materials immediately from the site as per the instructions of the Owner.
- ii) 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.

3.5 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.

3.6 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.

3.7 Power to make alterations

The Owner shall have the power to make in writing any alterations, omissions, additions or substitutions for original specifications, drawings, designs, patterns and instructions that may appear to him necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with the instructions which may be given to him by the Owner or his representative. On submission of electrical scheme to the Electrical Inspectorate it is bound to have some changes in the panels, cables rating etc.

Such alterations, omissions, additions, substitutions shall not invalidate the contract. Any altered additional or substituted work which the contractor may be required to do in the manner specified above as part of the work shall be carried out by the contractor on the same conditions in all respect on which the main works was agreed to be done and at the rates derived according to clause 3.8.

3.8 Change in specifications and valuation of extra items:

Extra items may be classified as additional, substituted, or altered items, depending on their relation or otherwise to the original item or items of work.

Rates for authorities extra items, additional, altered or substituted work as may be ordered shall be determined by the "Owner" as follows:

- a. In the case of all extra items whether additional, altered or substituted, if accepted rates for identical items provided for in the contract, such rates shall be applicable.
- b. In the case of all extra items whether altered or substituted, for which similar items exist in the contract, the rates shall be derived from the original item by appropriate adjustment of cost of affected components. The percentage excess or deduction of the contract rate for the original item with reference to the estimated rate shall be applied in deriving the rates for such items.
- c. In the case of extra items, whether altered or substituted, for which similar items do not exist in the contract, the rates shall be arrived at on the basis of provision of standard data Book and schedule of rates 2013 of CPWD by adding profit of 15% and applying the contractor's quoted percentage above or below.
- d. In the case of extra items, whether additional altered or substituted, for which the rates cannot be derived from similar items in the contract, and only partly from similar items in the contract, and only partly from the CPWD rates, the rates for such part of parts of items as are not covered in the schedule of rates shall be determined by the Owner on the basis of the prevailing market rates giving due consideration to the analysis of the rate furnished by the Contractor with supporting documents, including contractor's profit. This shall be added on to the C.P.W.D rate revised as on 2013 (including contractor's profit). For the other part of the items the rates can be derived from the recent schedule of rates of C.P.W.D.
- e. In the case of extra item whether additional, altered, substituted, for which the rates cannot be derived either from similar item of work in the contract or from the departmental schedule of rates, the contractor shall within 14 days of the receipt of order to carry out the said extra item of work, communicate to the Owner the rate which he proposes to claim for the item, supported by analysis of the rate claimed and the Owner shall within one month thereafter, determine the rate on the basis or the market rate giving due consideration to the rate claimed by the contractor.
- f. The quantities indicated are approximate. On award of work and approval of the scheme, the contractor has to work out the actual quantities of each item of work and intimate to the Owner. No increase in cost shall be given for any additional quantities of any item given in the tender.

3.9 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 recommendation and approval of the Owner.

3.10 Testing:

The Contractor shall agree for testing works as mentioned in the specifications of various items of works involved in the project.

- i) If the various tests prescribed in the specifications at specified intervals for ascertaining the quality of the work done prove unsatisfactory, the Owner shall have the authority to instruct the Contractor to re-execute the work done or make alterations as per the orders of the Owner.

- ii) The Contractor shall furnish to the Owner, for approval adequate samples of all materials to be used in the works free of cost. Such samples shall be submitted before the work is commenced, giving ample time to ascertain ISI approval/markings. All materials furnished in actual works shall be of the same quality of that of approved samples.
- iii) The testing of various equipments to be used in works shall be tested in standard laboratories as directed by the Owner and the expenses incurred shall be borne by the Contractor.

3.11 Progress Report:

During execution of the contract, the contractor shall furnish weekly progress reports to the Owner and in the format as specified by the Owner indicating the progress achieved during the week and the total progress up to the 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.

3.12 Liabilities for defects and rectifications:

If it shall appear to the Owner that any work has been executed with imperfect or unskilled workman or with materials of any inferior description, 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, materials or articles complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct that work so specified and provide other proper and suitable materials or articles 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.

3.13 Defect liability Period:

The liability period of the work shall be 12 months from the date of completion of the work as certified by the Owner and this date will be as indicated in the provisional completion certificate. 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.

3.14 Suspension of work:

The Contractor shall suspend the progress of work, on receipt of the written order from the Owner for any of the following reasons:

- i) On account of any default on the part of the Contractor. In this case the contractor shall be entitled for the extension of time, but the contractor shall have no claim for payment of compensation for re-execution of faulty works.
- ii) For execution of the works for reasons other than the default of the contractor.
- iii) For safety of the works.

In case of suspension of work:

- a) The contractor shall during such suspension, properly protect and secure the works and carry out the instructions of the owner.
- b) If the suspension is ordered for the reasons 3.13 as stated above, the Contractor shall be entitled for extension of time equal to the period of every such suspension but no compensation for damages etc. shall be admissible on account of suspension of work.

3.15 Possession prior to completion:

The Owner shall have authority to take possession of any completed or partially completed works. Such possession shall not be deemed to be acceptance of any work completed in accordance with the contract. If such prior possession delays the progress of works then the adjustment in the time of completion shall be done accordingly. The decision of the Owner regarding the extent of delay shall be final and binding.

3.16 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.

4.0 CERTIFICATE AND PAYMENT**4.1 Schedule of Rates:**

- i) The payments to be made to the contractor for various items of works shall be as per the finalised rates in tender document and the rates of extra items finalised from time to time.
- ii) The rates finalised in the tender document shall remain firm till the completion of the work including extension of time, if any.
- iii) After the completion of work, the Contractor will have to submit the clearance certificate for all statutory payments like royalties, Octroi etc.

4.2 Measurement:

Joint measurements of the various items of the work shall be taken by the Contractor's authorised representative in presence of the Owner's and authorized representative from time to time for maintaining the records and preparing the bills. If the contractor fails to send his representative then the measurements taken by the Owner's and shall be final and no claim shall be entertained in this regard.

4.3 Mode of Measurement:

All measurements shall be in the metric system and in accordance with Indian Standard Specifications and in accordance with standard engineering practice. If the contractor has any objection regarding the measurements then he shall inform the Owner immediately. The decision given by the owner shall be final and binding on the contractor. In case of mode of measurement of any item is not specified; then I.S.I. mode of measurement (as applicable during contract period) shall be followed.

4.4 Mobilization Advance:

No mobilization advance shall be paid.

4.5 Lump sums in Tender:

Lump sum items considered only where specified.

4.6 Running Account Payments to be regarded as advances:

All running account payments shall be regarded as payments by way of advances against the final payment only and not as payment for work actually done and completed, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the performance of the contract or nor shall it conclude, determine or affect in any way the powers of the Owner under these conditions or any of them as to the final settlement of the accounts or otherwise, or in any other way vitiate or affect the contract. The final bill shall be submitted by the contractor within one month from the date of actual completion of the work, to the Owner's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on the Contractor. The payment of final bill shall be done within three months after the submission of the final bill by the contractor, to the including period of one month of clause no.4.8 (c) billing and terms of payment.

4.7 Payment of Contractor's Bills:

- a. The payment due to the contractor shall be made only in Indian Currency by Crossed Account Payee Cheques. In no case, will the Owner be responsible if the cheque is misled or mis-appropriated by the contractor or his representatives. The cheque shall be released only against submission of duly signed and revenue stamped receipt.
- b. The Owner reserves the right to carry out post payment audit and technical examination of the bills and work executed including all supporting vouchers etc. The Owner further reserves the right to enforce recovery of over-payment when detected. Similarly, if any under payment is discovered, the amount shall be paid to the contractor.
- c. Wherever any claim for the payment against the contractor arises as per the contract, the same may be deducted from the bill of the contractor or from his security deposit.

4.8 Billing and terms of payment:

(a) The payment shall be made as under:-

- i) 70% of the value of goods supplied/work executed at site shall be made immediately after supply of materials/work executed at site.
- ii) 20% of the value of goods supplied/ work executed at site shall be made immediately after completing and commissioning the equipments/work executed.
- iii) Balance 10% after rectification of defects, energizing the complete system to the full satisfaction of Owner and getting statutory approvals.

(b) The amount deposited as Security Deposit shall be released only after issuance of provisional completion certificate by the Owner.

c) Retention Amount: Retention Money at the rate of 5% of the value of work done for each running bill will be deducted. The retention money shall be returned at the expiration of defect liability period of 12 months.

- (d) Tax Deduction: All statutory deductions like Income Tax, Works Contract Tax, E.S.I., P.F. or any other government imposed liabilities 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.

5. Provisional Completion Certificate:

When the Contractor successfully completes the works as per the contract, he shall be eligible to apply for provisional completion certificate in respect of the works. The Owner shall issue to the Contractor the provisional completion certificate after verifying from the completion documents submitted by the Contractor and satisfying himself that the work has been completed in accordance with the construction drawings and the contract document. The Contractor, after obtaining the provisional completion certificate, is eligible to present the final bill for the work executed by him under the terms of the contract. The work will not be considered as complete and taken over by the Owner until all the temporary works, labour hutments etc. are removed and the work site cleared to the satisfaction of the Owner.

If the contractor fails to comply with the requirements of the above on or before the date for the completion of the works, the Owner may, at the expense of the contractor, remove the tools and plants and surplus materials and dispose off the same and the contractor shall pay the amount of all expenses incurred.

6.0 LABOUR LAWS AND SAFETY REGULATIONS

6.1 Labour Laws:

- i) Laborers 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 laborers 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 /authorized engineer 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.

6.2 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.

6.3 Provident Fund:

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

7.0 SAFETY CODE

7.1 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.

7.2 Use of Safety Gadgets:

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

7.3 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.

7.4 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.

7.5 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 Owners representatives.

- iv) Charged electrical panels.
- v) Owner's existing property liable to get damaged by contractor's operation.

7.6 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.

8.0 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.

9.0 CONTRACTOR'S SCOPE OF SUPPLY

All materials required for executing the jobs specified in the Schedule of Items, inclusive of 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.

10.0 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 in complete, then the Owner/has the right to forfeit the security deposit.

11.0 SPECIAL INSTRUCTIONS

- a) All materials to be used in execution of project shall be of **first class quality, recommended make; I.S.I. marked and shall be approved by Owner** before its application.
- b) The contractor shall be paying all testing charges required for testing of materials and samples as and when taken by Owner/ The Contractor shall arrange necessary labour and transportation to facilitate testing of samples/materials. Frequency of testing materials/samples shall be as per related I.S. codes.
- c) 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.

- d) The Owner/ should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job at site before actual execution of particular item having discrepancy.
- e) Any item found to be having been executed with poor workmanship or materials of inferior quality 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 reserved the right to rectify/reconstruct the work through some other agency at the expenses of contractor.
- f) 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.
- g) The Contractor shall take charge of site and if site clearance is involved, he shall attend to it. (If such type of unforeseen and unavoidable situation occurs, in that case actual labour employed for such job shall be paid including overheads and profit).
- h) Special care is to be taken for cleanliness of the site. After the end of day's work, the site should be cleaned immediately.
- i) The contractor shall have to co-operate with the agencies executing other works in the same area.
- j) While executing the work, the contractor shall ensure safety and security of the property of the Owner so as to avoid theft etc.

12. STAMP PAPER AGREEMENT

AN AGREEMENT made this the _____ day of _____ 2013 between M/S _____ here in after called the CONTRACTOR/S which expression shall include its executors, administrators, legal representative and assigns of the first part and **M/S. HLL LIFECARE LIMITED..** (Hereinafter called the Owner) of the second part. WHEREAS **M/S. HLL LIFECARE LIMITED.** the Owner is desirous of doing **“Supply, Installation, Testing and Commissioning of Fire Fighting Systems for the new condom manufacturing facility at Rubber park, Irapuram, Kochi “** as per Drawings & specification and the contractor/s has/have by his/their tender dated _____ as amended by the contractor’s - contractor’s letter no. _____ dated _____ 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 the schedule Bill quantities particular specifications, ISI specification, drawings, special conditions of the contract, scope & performance schedule and general conditions of the contract, according to the terms and conditions contained there in for an approximate total sum of

Rs. _____ (Rupees _____
_____) and the Owner has accepted such item rate/percentage rate/Lump sum tender in terms of its letter no. /dtd. _____.

Owner/Employer

SIG.OF THE CONTRACTOR

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS

1. The contractor/s covenant/s and agree/s with the Owner that the contractor/s with in the time of **TWO 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 Schedule Bill of quantities Particular Specifications ISI Specification Drawings & Instructions issued from time to time Special Conditions of the Contract Scope & Performance Schedule General Conditions of the Contract.

The Contractor/s covenant/s and agree/s with the Owner to truly observe perform fulfill & submit to the said terms obligations and conditions referred above. In case the contractor fails to execute the work in the manner described in the condition 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. In case 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 four 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 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 and Special 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. The rates for items whether termed as extra items or deviations or by whatever name called and which are not covered by the tendered rates will be worked out in accordance with Clause 3.8 of Schedule II the General Conditions of the contract only.
4. Sales Tax by whatever name and in whatever form it may be in all cases shall be the contractor's /Contractors' responsibility. Income Tax Work Contract Tax & Taxes in pursuance of U.T. Sales Tax amendment and validation ordinances and or the Act thereof and or other amendments as may be made from time to time 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.
5. The contractor shall abide by and shall be responsible for all statutory provisions of the Law such as labour laws & safety regulations etc.
6. 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 fulfilment of contract by the contractor/s.

7. 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.

8. The following documents are deemed to form part of the agreement, namely the tender, the priced bill of quantities, the drawings issued for the work, Schedule 'II' Particular Specifications, Special Conditions of the Contract and General Scope performance Schedule Conditions of the contract, 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.

9. The agreement further witnesseth that the contractors is are 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 reimbursed 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.

FOR & ON BEHALF OF **HLL LIFECARE LIMITED**,

OWNER/EMPLOYER

SIGN.OF THE CONTRACTOR

Date:

Witnesses:

1. _____

2. _____

Witnesses:

1. _____

2. _____

SCHEDULE –III

SPECIFICATION

Sub: Supply, Installation Testing & Commissioning of Fire Fighting System for the new condom manufacturing facility at Rubber park, Irapuram, Kochi.

Requirements

In connection with the Setting up of New Condom Manufacturing Facility at Rubber Park, Irapuram, Ernakulam, we require Fire Protection System as per the schedule of items

Name of System Required: FIRE FIGHTING SYSTEM as per Schedule of Quantities

GENERAL CONDITIONS OF SPECIFICATION

1. Given specification are indicative only. **The supplier should visit the plant and also take their own assessments before quoting of bids.** Prior permission from HLL shall be taken for visiting the plant. No photographs will be allowed inside the plant. The purchaser will not be responsible for any wrong quotes due to inadequate information.
2. The System offered should be suitable for Indian electrical ratings as follows.
Power supply: 200-230V, 50 Hz (Single Phase) or 400-440 V, 50 Hz (3 Phase)
3. The System should be complete with all accessories and interconnections.
4. The suppliers should submit the following documents, relevant to their scope of work, two weeks prior to the commissioning of the unit:
 - a) All final drawings.
 - b) Relevant Test Certificates, Guarantee Certificate for each materials which are using for fabrication
 - c) Any other related documents
5. All electrical parts and control panel shall be conforming to and shall be done as per relevant Indian and/or any other standard stipulated by Electrical Inspectorate.
6. All parts other than SS and Aluminium parts shall be provided with 2 coats of enamel paint after proper surface treatment and applying 2 coats of primer.
7. Calibration certificates with traceability to National Standards shall be supplied for all the instruments coming under the scope of supply of supplier.

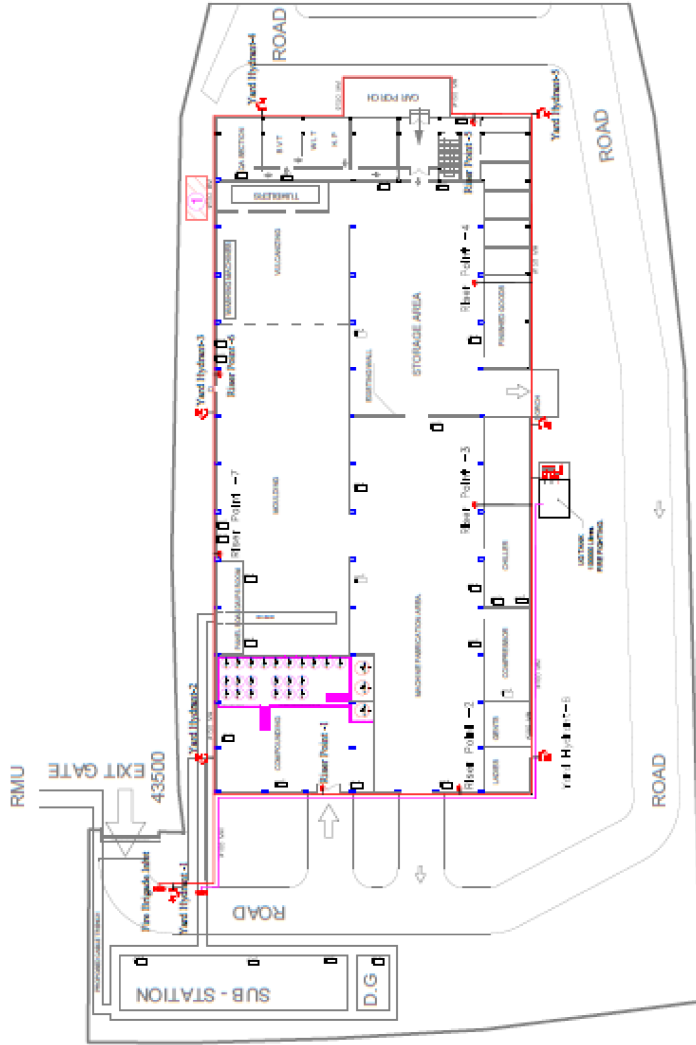
8. Any deviations from the bid documents shall be clearly indicated.
9. All the piping within the System is to be provided by the supplier. Relays should be of plug in type with base.
10. All control circuits shall be 230VAC. All power contactors and MCB shall have adequate capacity with O/L (Overload) relays and HRC back up fuse as per standard. Fuses and MCB should be given for control circuits also.
11. Earthing for all electrical equipments, motors, panel boards, Junction boxes etc should be done as per Indian Standards.
12. Junction boxes should be provided in each block and points where inspection is required or as per customer requirement.
13. Wiring inside the panel board should be done through PVC ducts and using ferrules and connector lugs, etc.
14. Wires should be taken through GI/PVC pipes and connection to panel boards, junction boxes, motors, solenoids etc should be given by using flexible hose/GI pipes. GI pipes should be earthed properly. Flexible hose and coupler should be of Finolex make.
15. Panel board should be complete with MCB's, Contactors and other Control equipments etc complete.
16. Panel boards should be fabricated out of 16G CRCA sheet coated with Stove enamel paint after phosphating, degreasing etc. Electrical insulators should be given wherever required to comply with the local Electrical Inspectorate regulations.
17. The Purchaser will be providing the required electrical supply to the equipment. All wiring requirements within the equipment are to be provided by the supplier as per standard.

SCHEDULE – IV
RECOMMENDED MAKES

SL NO.	MATERIALS	APPROVED MAKES
1	Motor	Kirloskar/Siemens/ABB/Crompton Greaves
2	Pump	Kirloskar/Mather & Platt/KSB/Beacon
3	Diesel Engine	Kirloskar/Cummins/Greaves
4	MS Pipe	Tata/Jindal/SAIL
5	GI & MS fittings	Tube weld/Tube products/Punjab steel/TNT
6	Valves	Kirloskar / Kalpana / Updhaya / Leader / Advance
7	Strainer	Sant/Emerlad/Teleflo/Jaypee/ Grandpix
8	Pressure guage	Fiebig/H.Guru
9	Pressure switch	Indfoss/Switzer/Schneider
10	Hydrant valve &	Newage/Steelage/ Arihant/Shah Bhogilal
11	Fire brigade point Branch pipe	Newage/ Arihant/Shah Bhogilal
12	CP hose	Newage/Shah Bhogilal/Pyroline
13	Hose Reel	Newage/Chathariya/Shah Bhogilal
14	Hose cabinet	Newage/ Zenith/Shah Bhogilal
15	Hardware	TATA/Sundaram fasteners/GKW
16	Paint	Asian/ICI/Nerolac/Berger
17	Polymeric mix	IWL
18	Fire extinguisher	Ceasefire/ Minimax / Safex / Bharat /Safeguard.
19	Alarm valve	HD / Tyco (UL listed)
20	Sprinkler	HD/ Tyco (UL listed)
21	Flexible pipe	Any UL listed
22	Alarm System	(All shall be UL/EN approved)
23	Smoke/heat detectors	Edwards/Morely/Essar/Siemens/Notifier
24	Fire alarm panel/Loop isolator	Edwards/Morely/Essar/Siemens/Notifier
25	Hooters/Manual call points	Edwards/Morely/Essar/Siemens/Notifier
26	FRLS Cable	Havells/Finolex/Polycab/RR Kabel

SCHEDULE - V

A. DRAWING TITLE FIRE PROTECTION SYSTEM

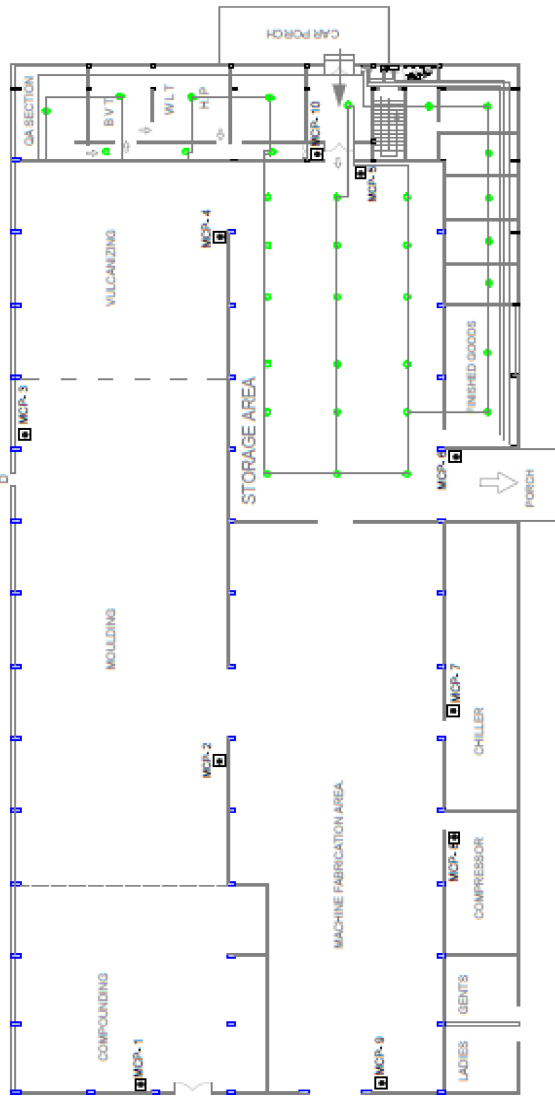


LAND DETAILS	Name of the Owner	PLINTH AREA DETAILS	ELECTRICAL LOAD APPROXIMATIONS (IAPURAM FACTORY, COCHIN)	ELECTRICAL LOAD APPROXIMATIONS (IAPURAM FACTORY, COCHIN)		
DISTRICT TALUK VILLAGE PANCHAYATH Survey No. EXTEND OF LAND	M/s. HLL Lifecare Limited HLL Lifecare - Thiruvananthapuram	Existing Area 4193.35 (G Floor + First floor + Stair Rooms + Sub Station & DG Room) Extension Area 452.61 (Chiller + Compressor Room + Ladies & Gents Assembly Room + Part's & Lathi Room) Total Area (Existing + Extension) 4646.96	SL/No 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000	Power in kW 300 kW 300 kW 750 kW TOTAL LOAD REQUIREMENT IN KW = 1350.	Equipment Description Machining Process Equipments - (Lathes, Milling Machines, Spindle Shapers etc.) Lathes - Compressor, Gas Collector, (Fire Hydrant System, Water Pumping System, Building Electrification etc.)	Equipment Description Compounding Process Equipments - (Adder, Mixers, Centrifuge, Agitator etc.) Moulding Process Equipments - (Condon Dipping line)

LEGENDS	
	Fire Brigade Inlet
	Yard Hydrant
	Fire Extinguisher
	Riser Point

MATERIAL:	HLL Lifecare Limited.	NO. OFF:
DRAWN BY:	IAPURAM FACTORY, COCHIN.	
CHECKED BY:		
APPROVED BY:		
DATE:	13-09-2013	Proj. no.:-
SCALE:	1/10	
ALL DIMENSIONS ARE IN MM		SHEET NO. 1 OF 1

B. DRAWING TITLE FIRE ALARM SYSTEM (GROUND FLOOR PLAN)



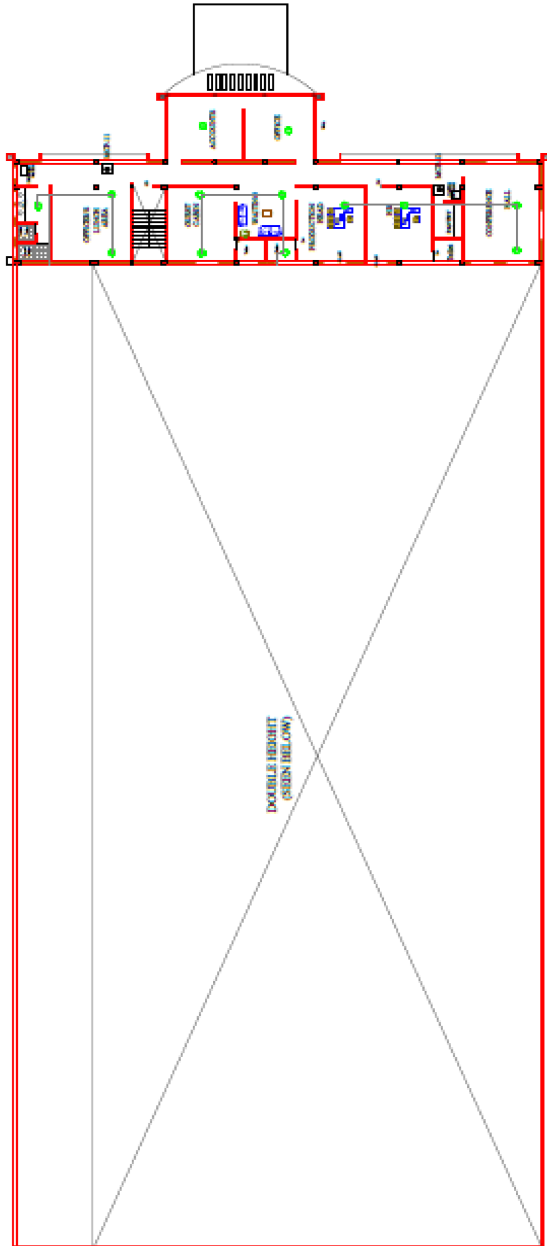
GROUND FLOOR PLAN

LAND DETAILS	Name of the Owner	FLINTH AREA DETAILS	ELECTRICAL LOAD APPROXIMATIONS IRAPURAM FACTORY, KOCHIN	ELECTRICAL LOAD APPROXIMATIONS IRAPURAM FACTORY, KOCHIN	Power In Kw	Power In Kw
DISTRICT ERNAKULAM	M/s - HLL Lifecare Limited HLL Bhawan Peolpala Thiruvananthapuram	Existing Area (01 floor + First Floor + Stair Room + Sub Station & DG Room)	1 Compounding Process Equipments - (Ablator, Heaters, Centrifuge Agitator etc.)	Equipment Description Vulcanizing Process Equipments - (Turnbars, Washing Machines, Spin Dryers etc.)	200 Kw	350 Kw
TALUK KANNATHUR		Extension Area (Chiller + Compressor Room + Ladies & Gents, Assembly Room + Prests & Linch Room)	2 Moulding Process Equipments - (Conden Dipping line)	Utilities - Chiller, Compressor, Dust Collector, Fire Hydrant System, Water Pumping System, Building Electrification etc.)	750 Kw	300 Kw
VILLAGE IRAPURAM BLOCK NO. 29						
PANCHAYATH MACHUQUADORWARD NO.18						
Survey No. Pn. 34 No. 1967/3						
EXTEND OF LAND 128 Acres 8 sq. M		Total Area (Existing + Extension) 4948.98				TOTAL LOAD REQUIREMENT IN KW - 1800


LEGENDS	
□	Mcp
□	Hoover
H	Heat Detector
G	Smoke Detector
NS	FACP






MATERIAL:	HLL Lifecare Limited.	NO. OFF.
DRAWN BY:	Paul MJP	
CHECKED BY:		
APPROVED BY:		
DATE:	13-06-2013	
SCALE:	NTS	
ALL DIMENSIONS ARE IN M.M		
Drg.no.-		
SHEET NO 1 OF 1		
DATE:		

C. DRAWING TITLE FIRE ALARM SYSTEM (FIRST FLOOR PLAN)



FIRST FLOOR PLAN

LAND DETAILS		Name of the Owner		PLINTH AREA DETAILS		ELECTRICAL LOAD APPROXIMATIONS IRAPURAM FACTORY, KOCHI		ELECTRICAL LOAD APPROXIMATIONS IRAPURAM FACTORY, KOCHI		
DISTRICT	ERNAKULAM	 HLL Lifecare Limited HLL Bhawan Peeples Thiruvananthapuram		Existing Area	4185.35	Equipment Description	Power In Kw	Equipment Description	Power In Kw	
TALUK	KUNNATHUNJADU			(G.floor + First Floor + Stair Room+ Sub Station & DG Room)	1	Compounding Process Equipments - (Mixer, Heaters, Centrifuge Agitator etc.)	200 Kw	3	Vulcanizing Process Equipments - (Tumblers, Washing Machines, SpH Dryers etc.)	550 Kw
VILLAGE	IRAPURAM BLOCK NO. 26			Extension Area	2	Moulding Process Equipments - (Chiller, Compressor, Dust Collector, Ladies & Gents Amhney Room + Porch & Lunch Room)	750 Kw	4	LIBRES - (Chiller, Compressor, Dust Collector, Fire Hydrant System, Water Pumping System, Building Electrification etc.)	300 Kw
PANCHAYATH	MAZHUVANNOOR WARD NO. 18	Total Area (Existing + Extension)		4882.96	TOTAL LOAD REQUIREMENT IN KW - 1600					
Survey No.	Ra. Sv. No. 156 / 3									
EXTEND OF LAND	123 Acres & sq. M									

LEGENDS		MATERIAL:		HLL Lifecare Limited.		NO.OFF.	
	Mcp	IRAPURAM FACTORY, COCHIN.		PULL/M/P			
	Hooter	TITLE:-		FIRE ALARM SYSTEM			
	Heat Detector	DRAWN BY:					
	Smoke Detector	CHECKED BY:					
	FACP	APPROVED BY:				Drg.no:-	
		DATE:		13-09-2013		SHEET NO 1 OF 1	
		SCALE:		N/Ts		PAGE:	
		ALL DIMENSIONS ARE IN M.M					

SCHEDULE VI
SCHEDULE OF QUANTITIES

(6 Pages)

SCHEDULE VI

SCHEDULE OF QUANTITIES

SUB: Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.									
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
1	MAIN PUMP								
	Supplying, Installation, Testing and Commissioning of Electric driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required.(a)Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq.cm.at highest and farthest outlet at specified flow of 2280 lpm at 70 m. head conforming to IS 5120. (b)60 HP (55 KW) SQ cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.(c)M.S. fabricated Common base plate, coupling guard, foundation bolts etc. as required. (d)Inter connection with suitable size PVC insulated PVC sheathed armoured copper conductor cable etc as required. (e)Suitable cement concrete foundation dulyplastered with antivibration pads.	1	No						
2	DIESEL ENGINE DRIVEN PUMP								
	Supplying, Installation, Testing and Commissioning of Diesel Engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required.(a)Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal to ensure a minimum pressure of 3.5 kg/sq. cm. at highest and farthest outlet at specified flow of 2280 lpm at 70 m. head conforming to IS 5120.of Diesel Engine driven main fire pump suitable for automatic operation and consisting of following : complete in all respect as required. (b)60HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant BS & IS standard complete with auto starting mechanism, 12 Volts/24 Volts electric starting equipment , Diesel tank, exhaust pipe extended up to 1.0 m.out side pump house duly insulated with 50 mm. thick glass wool with 1.0 mm. thick aluminium sheet cladding, residential silencer, instruments and protection as per specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.(c)M.S. fabricated Common base plate, coupling,coupling guard, foundation bolts etc. as required.(d)Providing and fixing 15 mm dia GI pipe C class for fuel line as required. (e)Suitable cement concrete foundation duly plastered with antivibration pads.	1	No						
3	JOCKEY PUMP								
	Supplying, Installation, Testing and Commissioning of Electric driven pressurisation pump suitable for automatic operation and consisting of following : complete in all respect as required. a)Horizontal type, multistage, centrifugal pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal and flow of 180 lpm at 70 m head conforming to IS :5120. (b)5 HP SQ cage induction motor, TEFC class 8 type suitable for operation on 415 volts, 3 phase 50 Hz. AC with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.(c)M.S. fabricated Common base plate, coupling,coupling guard, foundation bolts etc. as required. (d)Inter connection with suitable size PVC insulated PVC sheathed armoured copper conductor cable etc as required. (e)Suitable cement concrete foundation duly plastered with antivibration pads.	1	No						

SCHEDULE VI

SCHEDULE OF QUANTITIES

SUB: Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.									
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
4	CONTROL PANEL								
	Fabrication, Supplying, Installation, Testing and Commissioning of Electrical control panel of cubical construction, floor mounted type, fabricated out of 2mm. thick CRCA sheet, compartmentalised with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, inter connection, having switchgears and accessories mounting and internal wiring, earth terminals, numbering etc. complete in all respect, suitable for operation on 415 V, 3 phase, 50 Hz. AC supply with enclosure protection class IP 42 required.	1	No						
	(A) COMMON PANEL IN FIRE PUMP HOUSE								
	INCOMER								
	(a)160 Amps. TPN								
	(b) Voltmeter (0-500 Volts) with selector switch.								
	(c) Ameter (0-200 Amps) with selector switch & CT's etc.								
	(d)Set of 3 Phase indicating lamp.								
	(e)Set of Al. bus bar 250Amps.								
	OUTGOING								
	(a) Main Fire pump 125 Amps. TPN with suitable HP fully automatic star/delta starter with over load protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/ OFF operation.								
	(b) Jockey pump								
	63 Amps. TPN with suitable HP fully automatic DOL starter with over load protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/ OFF operation.								
	(c)Diesel Engine Control.								
	(a)32 Amps. TPN								
	Control for Diesel Engine comprising:-								
	(i)Auto/Manual selector switch & 3 attempt starting device, timers and relays as required, push buttons, start/stop in manual mode.								
	(ii)Indication lamp for High/Low Lub. Oil pressure, High Water Temp. and Engine ON indication.								
	(iii) SMPS Battery charger suitable for 12 V/ 24 V DC with boost and tickle selector switch, 0-30 V DC volt meter, 0-20A DC Ammeter								
	(iv)All standard relays and accessories for automatic operation of diesel engine.								
	(d) SYSTEM CONTROLER								
	Designing, Supply, Installation, Testing and commissioning of System controller to control operation of Main Electric Fire Pump, Diesel Pump, Pressurisation Pump in sequence as per specification consisting of relays, timers, sensors, annunciation window for fault indication, complete as per specification.								

SCHEDULE VI									
SCHEDULE OF QUANTITIES									
SUB: Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.									
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
5	XLPE CABLE								
	Supply and Laying of below sized XLPE insulated PVC sheathed Aluminium conductor armored cabling to the incoming and outgoing of fire pump panel including necessary termination, glanding, necessary connections etc								
a	3.5 x95 sq mm on wall, floor	30	Mtr						
b	3.5 x70 sq mm on wall, floor	15	Mtr						
c	3.5 x16sq mm on wall, floor	10	Mtr						
6.1	ABOVE GROUND PIPING								
	Providing, laying, testing and commissioning of 'C' class heavy duty GI pipe conforming to IS:1239 l/c fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc fixing the pipe on the wall/ ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint of post office red clour complete as required.								
a	150 mm dia	370	Mtr						
b	100 mm dia	190	Mtr						
c	80 mm dia	20	Mtr						
e	50 mm dia	15	Mtr						
6.2	UNDER GROUND PIPING								
	Providing, laying, testing and commissioning of 'C' class heavy duty MS pipe conforming to IS:1239 l/c fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc fixing the pipe on the wall/ ceiling with suitable clamps and painting with two or more coats of synthetic enamel paint of required shade complete as required.								
a	150 mm dia	30	Mtr						
7	BUTTERFLY VALVE								
	Supplying , fixing, testing and commissioning of butterfly valve PN 1.6, bronze/ Gun metal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095 of following sizes as required.								
a	150 mm dia	8	No						
b	100 mm dia	6	No						
c	50 mm dia (Ball Valve)	4	No						
d	25 mm dia (Ball Valve)	6	No						
8	NON RETURN VALVE								
	Providing and fixing horizontal type cast iron double flanged Non -return valve of approved quality conforming to IS:5312 with bolts, nuts, washers, 3mm thick insertion rubber gaskets complete. as reqd.								
a	150 mm dia	2	No						
b	100 mm dia	2	No						
c	50 mm dia	3	No						
9	HYDRANT VALVE								
	Supplying and fixing single headed internal hydrant valve with instantaneous gun metal /SS coupling of 63 mm dia with cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal cap and chain as required.(Make : NEWTECH/ARIHANT/ESSEL)	13	No						

SCHEDULE VI									
SCHEDULE OF QUANTITIES									
SUB: Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.									
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
10	HOSE REEL								
	Supplying and fixing First-Aid Hose Reel with MS construction spray painted in post Office Red drum and brackets, Conforming to IS 884 with upto date amendments, complete with the following as required. (a) 30 m. long 20 mm (nominal internal) dia water hose Thermoplastic (Textile reinforced) Type-2 as per IS: 12585 © Drum and brackets for fixing the equipments on wall. (d) Connections from riser with 25 mm dia stop valve & M.S. Pipe (Make : EVERS SAFE/SRI/READE/NEWTECH/MAHAVIR)	7	No						
11	HOSE BOX								
	Supplying and fixing of weather proof hose cabinet fabricated from 2mm thick MS sheet with 6mm thick glazed front glass doors and locking arrangements suitable for accommodate extrnal hydrant with butterfly valve, 2 Nos 15 Mtrs long hose pipe, 1 No. branch pipe, fittings etc.for yard hydrant.The cabinet shall be painted with one coat of primer and 2 coats of synthetic enamel paint of post office red externally and white internally and shall be suitably mounted on concrete base.	13	No						
12	FIRE HOSE								
	Providing and installation of 63 mm dia,15 Mtr long rubber lined woven jacketed hose pipe, type- A (Reinforced rubber lined) of IS-636-1988 complete with necessary instantaneous spring lock type coupling at the ends to match with landing valve / hose pipe / branch pipe with gunmetal/SS male & female couplings (IS:903:1993)(Make : PADMINI/OMEX/TORRENT)	26	No						
13	BRANCH PIPE								
	Providing and installation of Branch pipe of 63 mm dia having Gunmetal/SS body with hexagonal head of 20mm dia nozzle conforming to IS903 with ISI mark (Make : NEWTECH/ARIHANT/ESSEL)	13	No						
14	AIR CUSSION VESSEL								
	Supplying, Installation, Testing & Commissioning of air cushion tank (air vessel) of continuous welded construction, fabricated out of atleast 8mm thick steel with dished ends, galvanised to IS:4736-1968 and supporting legs, 250mm dia & 1200mm high complete with necessary air release valve, safety valve, pressure gauge, flange connection to the wet riser piping with necessary piping to meet the functional requirement of the system.	1	No						
15	PRESSURE GAUGE								
	Supplying, fixing, testing and commissioning of 0-15 Kg/sq cm100mm dia Dial type pressure gauge with isolation cock and pipe at hydrant station as per specification.	8	No						
16	PRESSURE SWITCH								
	Supply, installation, testing and commissioning of industrial type pressure switch having 1/4" BSP(F) connection IP:32 enclosure protection, phosphor bronze bellows as sensing element, SDPT contact system, switch rating 6A Inductive/OA resistive 380 V AC, 0.2A Inductive/10A resistive 250V DC suit with ball valve etc. complete as required.	3	No						
17	SPRINKLER ALARM VALVE								
	Providing, fixing, testing and commissioning of installation control valve of cast iron body and braas/bronze working parts comprising of water motor alarm bronze seat clapper and clapper arm hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/sprinkler system activates pressure gauges, emergency releases, strainer, pressure switch cook valve complete with drain valve and pass test control box, ball valves, GI pipe of required size, flanges, orifice plate, gasket etc of size 150mm dia as required.Approved by UL	1	No						
18	AIR RELEASE VALVE								
	Supply, installation, testing and commissioning of Gun metal Air Release valve 20mm dia	6	No						

SCHEDULE VI									
SCHEDULE OF QUANTITIES									
SUB: Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.									
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
19	FIRE BRIGADE INLET								
	Supply, installation, testing and commissioning of 4 way Fire Brigade Inlet connection of 63 mm dia. built - in Gun metal Non- return valves instantaneous coupling type arrangement to be connected to wet riser main.	2	No						
20	FOOT VALVE								
	Supply installion testing and commisssioning of Foot valve								
a	150mm dia	2	No						
b	100 mm dia	1	No						
21	EXTINGUISHER								
a	Supply and installation of ABC type fire extinguisher of 6 kg. Capacity complete with initial charges and installation brackets confming to IS15683 with ISI mark .	20	No						
b	Supply and installation, testing and commissioning of CO2 type fire extinguisher with 4.5 kg. Capacity complete with installation brackets confming to IS15683 with ISI mark	10	No						
22	ADDRESSABLE FIRE ALARM PANEL								
	Supply, installation, testing & commissioning of networkable 4 Loop Micro processor based 2 wire fault tolerant loop with optional redundant network module ,each loop shall have the cpability of connecting 126 devices.The fire alarm control panel shall have built in degarde mode function.The panel should have inbuilt TCP/IP communication for Panel Program and Remote Monitoring option through LAN or WAN communication.The panel shall be able to give location of all fire and More Fire /fault and Isolation conditions of addressable units via the address codes.The panel shall have the capacity of storing upto 2000 events.Further, the panel must be able to automatically switch ON /OFF respective control module when ever any alarm is triggered. The panel should have inbuilt common Alarm, Fault and monitored sounder output. The panel shall have a 8x40 characters LCD display with resolution of 256 X 112 pixels, and analog output, external/inbuilt printer to log all fire or fault events complete in all respects. The Panel Should have protection caregory of IP30. Also the panel should have the option to operate in manned and unmanned mode.The Panel Shall have the option of 24/48/96 Zones with Individual LED Indicators or with in the Loop mimic driver for 96 LED indicators.The panel shall have a built in power supply and battery charger along with maintenance free 12AH, 2 x 12 volt SMF Lead acid batteries capable of running for a minimum of 24 hours with battery charger complete as required.and as per specifications and Duly Approved by EN54/LPCB/VDS/FM Make: SIEMENS/NOTIFIER/BOSCH	1	NO						
23	DETECTORS								
	Supply and installation, testing and commissioning , of Intelligent Analog Addressable Multi-Sensor type Smoke Detector with inbuilt turbo Isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation and high tolerance to dust,dirt, temperature fluctuations and air currents. Detector should have unquie address for communication and assigned through panel with Mounting Base as required with the protection category of IP40 and Duly Approved by EN54/LPCB/VDS/FM/UL Make: SIEMENS/NOTIFIER/BOSCH	50	No						
24	REPEATER PANEL								
	Supply and installation, testing and commissioning of Analog Addressable type Active Loop Repeater (Loop power/external power) Fire terminal with inbuilt turbo isolator, Backlit LCD Display 6x40 characters display,having Controls For Reset, Mute, Accept , Silence alarms and Self Test, with programmable free keys and Duly Approved by EN54/LPCB/VDS/FM Make: SIEMENS/NOTIFIER/BOSCH	3	No						

SCHEDULE VI									
SCHEDULE OF QUANTITIES									
SUB:	Supply, Installation, Testing and Commissioning of Fire Fighting System for the New Condom Manufacturing Facility at Rubber park, Irapuram, Kochi as per the specifications - reg.								
SL NO	DESCRIPTION	QTY	UNIT	SUPPLY		ERECTION		TOTAL	
				UNIT RATE IN RS.	AMOUNT IN RS.	UNIT RATE IN RS.	AMOUNT IN RS.	RATE IN RS.	AMOUNT IN RS.
25	HEAT DETECTORS								
	Supply and installation, testing and commissioning of Intelligent Analog Addressable Heat Detector (Static + ROR) with inbuilt turbo Isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation. Detector should have unique address for communication and assigned through panel with Mounting Base as required with the protection category of IP40 and Duly Approved by EN54/LPCB/VDS/FM/UL Make: SIEMENS/NOTIFIER/BOSCH	5	No						
26	MANUAL CALL POINT								
	Supply and installation, testing and commissioning of of Intelligent addressable manual call point with inbuilt turbo Isolator suitable for flush or surface mounting, call point shall include test key feature without removing the glass. Also should have protection category of IP44 and extra accessories as required, duly approved by EN54/LPCB/VDS/FM Make: SIEMENS/NOTIFIER/BOSCH	12	No						
27	LOOP POWERED SOUNDER								
	Supply and installation, testing and commissioning of Intelligent addressable loop powered/external power sounder cum beacon with base, inbuilt turbo Isolator , able to provide an o/p of 99dBA at 1m, peak light o/p of at least 3.2cd and shall have 11 programmable tones, 3 volume settings selectable from the panel and fully synchronized with other sounders and shall have the ability to switch between one tone for alert and one tone for evacuation. Shall have protection category of IP42 and duly approved by EN54/LPCB/VDS/FM Make: SIEMENS/NOTIFIER/BOSCH	12	No						
28	INPUT MODULE								
	Supply and installation, testing and commissioning of Addressable four input/out put module with inbuilt isolator and shall have the LED indication for Normal, Fault, test, and activation. The module shall have the option for configuration as fail safe operation and duly approved by EN54/LPCB/VDS/FM Make: SIEMENS/NOTIFIER/BOSCH	5	No						
29	FRLS CABLE								
	Supply and installation, testing and commissioning of 2C x 1.5 Sq.mm twisted pair copper cable ISI marked with proper clamping, supports and terminations Make: Polycab, RR Cable, Varsha	2100	Mtr						
30	PRIMING TANK								
	Supply and installation of out door type MS priming water storage tank of not less than 2000liters (confirming to IS12701) with supporting structure and base complete with inlet, outlet, drain, manhole and cover etc as required	1	No						
31	NOC								
	Preparation of all drawings, submitting to the statutory authority for getting NOC and sanction, Liaisoning charges etc. complete. (All statutory fees for the same shall be reimbursed by HLL, on production of original documents)	1	L/S						
TOTAL AMOUNT IN RS.									
APPLICABLE TAXES									
GRAND TOTAL AMOUNT IN RS (INCLUSIVE OF TAXES)									
(IN WORDS)									
I agree to execute the works as per the schedule at the rates quoted by me as above									
									CONTRACTOR