

TENDER DOCUMENT

**CIVIL & ELECTRICAL WORKS FOR SETTING UP OF
MAJOR DIAGNOSTIC LAB**

**AT
HLL FACILITY, KHARGHAR, MAHARASHTRA**

**PROJECTS DIVISION,
HLL LIFECARE LTD,
CORPORATE HEAD OFFICE, POOJAPPURA,
THIRUVANANTHAPURAM – 695 012,
KERALA, INDIA
PHN: ++91 471 2354949, 2775588**

DECEMBER 2016

HLL LIFECARE LIMITED
 (A Government of India Enterprise)
 Projects Division
 Corporate Head Office, Poojappura.P.O,
 Thiruvananthapuram – 695012,
 Kerala, India
 Phn: 0471- 2354949, 2775588

INVITATION FOR BIDS (IFB)

IFB No : HLL/CHO/PROJ/HCS/MH-03/2016-17

Date : 27-12-2016

HLL Lifecare Limited (HLL), a Government of India Enterprise is in the process of setting up its Diagnostic Lab facilities at various locations in Maharashtra. For the said project, sealed and super scribed bids are invited from eligible, competent and experienced Contractors who are capable to do the following work meeting the requirements as per the tender.

Sl. No	Brief Description of Item/Work	EMD in Rs.
1	Civil & Electrical works for setting up of MAJOR Diagnostic Lab at HLL Facility, Kharghar, Maharashtra as per <u>Schedule of Work (Schedule IV)</u> enclosed.	1,00,000/-

1. Qualification Criteria:

- a. Bidders should have minimum **Three years experience** in the relevant field. Documentary proof for the above eligibility criteria should be submitted along with the offer.
- b. Bidders should have experience of having successfully completed within a period of last 3 years ending 01/12/2016 at least
- i. **One** similar work of value not less than **Rs 25.0 Lakhs**
Or
- ii. **Two similar works** , each of value **not less than Rs 15.0 Lakhs**

Copies of Work orders and Completion certificates issued by the Client/Authority concerned shall be submitted.

- c. Bidder should have satisfactorily completed at least one work for any Central/State Government Departments or Central/State PSU's or local bodies in the last three years ending 01/12/2016.

2. The bid documents will be available up to 15.00 Hrs. on the previous working day of the opening of the bids. The scheduled date for issue, receipt and opening of bids is as follows.
 - a) Date of issue of tender document - 27-12-2016 onwards
 - b) Last date and time for receipt of bids - 12-01-2017 up to 15.00 Hrs.
 - c) Date and time of opening of bids - 12-01-2017, 15.30 Hrs.
 - d) Address for communication, receipt and place of opening of bids:

ASSOCIATE VICE PRESIDENT (PROJECTS),

Projects Division,

HLL Lifecare Limited (A Government of India Enterprise)

Vth Floor, Plot No-86, Sector 11, Kopara Road,

Kharghar, Navi Mumbai,

Maharashtra - 410210

Phone: 022 2087 0667

E-mail: sreekumar@lifecarehll.com, harikrishnankp@lifecarehll.com

3. The completed and sealed bid documents should be submitted to Associate Vice President (Projects), in the above address along with the EMD. The outer cover should bear the Enquiry No, closing date and General description of item tendered, and the words "DO NOT OPEN BEFORE" 15.30 Hrs (IST) on 03-01-2017 (Indicate the Closing Date). EMD shall be submitted in the form of demand draft drawn from a nationalized bank in favor of HLL Lifecare Limited payable at Thiruvananthapuram. Bids received after due date and time will be rejected. Any bid not accompanied by EMD will be rejected.
4. Bids will be opened in the presence of Bidders representative(s) who choose to attend on the specified date and time, at the office of HLL at the address given in Clause 2 (d) above.
5. In the event of the date specified for bid receipt and opening being declared as a closed holiday for the above purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
6. HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
7. HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by Telex/Fax/Telegraph will not be accepted.
8. The EMD should be enclosed in a separate envelope and super scribed as "EMD" and to be attached in the main cover. SSI units interested in availing exemption from payment of EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC.

9. The Bid must include the following information;
- a. Enquiry No.
 - b. EMD
 - c. Promised Delivery/Completion Schedule
 - d. Price Schedule in Format For Quoting (Schedule IV & Schedule V)
 - e. All other documents/certificate/information as specified in the bid document.
10. In addition to the invitation for bids, the bidding documents include the following schedules.
- | | | |
|--------------|---|------------------------|
| Schedule II | - | Conditions of Contract |
| Schedule III | - | Acceptance Form |
| Schedule IV | - | Schedule of Work |
11. Bidders that have been blacklisted by HLL Lifecare Ltd. or any of its subsidiaries or any other State / Central Government organizations / PSU's shall not be entertained.
12. HLL reserves the right to club or split the works, change the qualifying criteria at their discretion and to reject or cancel the Invitation for bids without assigning any reason thereof.

ASSOCIATE VICE PRESIDENT (PROJECTS)

SCHEDULE II

CONDITIONS OF CONTRACT

1) PRICE

The price quoted should be inclusive of all material cost, loading and unloading charges, all applicable taxes and other levies, labor charges, insurance etc. The **Schedule of Work** is enclosed as **Schedule IV**.

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

2) TAXES/DUTIES/LEVIES

The contractor shall be entirely responsible for all applicable taxes including sales tax, work contract tax, service tax, entry tax, duties, license fees etc. incurred until successful completion of contract.

3) 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.

Rates quoted should be inclusive of all cost of materials, Tools/Equipments labor charges, conveyance to site, handling charges, loading and unloading charges, hiring charges, clearing of debris, statutory payments etc.

4) COMPLETION TIME

Time is the essence of the Contract. The total time allotted for completion of works in all respects for the Lab is **4 WEEKS** from the date of issue of the Letter Of Intent or Work Order.

5) PAYMENT TERMS

The contractor can submit two running account bills during the work period and payment made as below:

- a) 80% of the bill value will be paid on each running account bill submitted by the contractor.
- b) Balance 20% will be paid along with the final bill only after issue of Work Completion certificate by Engineer In Charge/Officer In Charge of HLL Lifecare Ltd.

5% amount of the Bill will be retained as retention money and will be released only after the Defect liability period of 12 months.

The running account bills are to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements

recorded and certified jointly by HLL Engineer in charge and the Contractor's representative.

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.

6) SECURITY DEPOSIT

6.1 Simultaneously with the execution of the contract successful bidder shall furnish a Security deposit in the form of a Demand Draft from a nationalised bank drawn in favour of HLL Lifecare Limited, Thiruvananthapuram payable at Thiruvananthapuram or a Bank Guarantee from a nationalised bank, for an amount equal to 5% of the total contract value as Security Deposit for his faithful execution of contract. The Security deposit should be valid until successful completion of the contract and acceptance of the Equipment/works by the Purchaser/Owner and will be released after acceptance of the Equipment/works by the Purchaser/Owner. In case of a delay in the works the validity of security deposit shall be extended.

6.2 Within 10 days of the receipt of notification of award from the Purchaser/Owner; the successful Bidder shall furnish the security deposit in the form of a Demand Draft or Bank Guarantee in the security deposit form to be sent along with the Notification of Award.

6.3 Failure of the successful Bidder to accept the notification of award or submission of security deposit within the timeframe shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which even the Purchaser/Owner may make the award to the next lowest evaluated bidder or call for new bids.

7) EARNEST MONEY

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

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

- a. The EMD shall be in the form of cash deposit or demand draft from a nationalized bank drawn in favour of HLL Lifecare Limited, Thiruvananthapuram payable at Thiruvananthapuram.
- b. E.M.D. from unsuccessful bidders will be returned after the acceptance of order by the L1 party.
- c. In the case of successful bidder, the Earnest Money will be returned after signing the contract, and submission of Security Deposit, which they will have to offer for the faithful execution of the contract.

7.3 The EMD may be forfeited:

- (a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bidding Document; or
- (b) In case of the successful Bidder, if the Bidder fails:
 - (i) to sign the Contract
 - (ii) to furnish security deposit

8) DEFECT LIABILITY PERIOD:

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

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

9) FORCE MAJEURE

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

10) DELAY IN WORK EXECUTION DUE TO REASONS BEYOND CONTRACTOR'S CONTROL

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

11) LIQUIDATED DAMAGES FOR DELAYS

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

12) SPECIAL INSTRUCTIONS

1. **The bidder shall visit the site before quoting for the work and also take their own assessments before quoting of bids.**
2. 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. Bids shall be made in English. 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. 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.
5. 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.

6. 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.
7. 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.
8. The Owner reserves the right to negotiate with the lowest evaluated responsive bidder.
9. 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.
10. 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.
11. The signed acceptance of the notification of award by the Contractor will constitute a concluded contract.
12. The work should be carried out without causing any inconvenience to the public and shall ensure that no damages are caused to the existing site premises.
13. During the execution of work, the contractor or authorized representative should be present at site.
14. All Materials, Equipments/Tools required for the work should be arranged by the contractor and brought to site for the timely completion of the work.
15. The materials used shall be as per specification and of good quality.
16. The Contractor has to arrange necessary insurance coverage for the machine, workmen etc. deployed by him. He shall arrange all safety measures to protect his workmen and also the properties of HLL. The work site safety of all employees, their ESI, PF etc will have to be borne by the contractor.
17. 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 Purchaser/Owner before completely executing the work.

18. The Purchaser/Owner should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job before actual execution of particular item having discrepancy.
19. Any item found to be having been executed with poor workmanship then the Contractor shall have to rectify /reconstruct the work as specified by Purchaser/Owner. No extra charge will be admissible in such case. If CONTRACTORS fails to do so, the Purchaser/Owner reserved the right to rectify/reconstruct the work through some other agency at the expenses of Contractor.
20. 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.
21. Special care is to be taken for cleanliness of the site. After the end of day's work, the site should be cleaned immediately.
22. The Contractor shall have to co-operate with the agencies executing other works in the same area.
23. While executing the work, the Contractor shall ensure safety and security of the property of the Purchaser/Owner so as to avoid theft etc.
24. Measurement & Payment terms:

The method of measurement of completed work shall be in accordance with the standard measurement. Payment will be made on satisfactorily completion of work as per the order. Interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements in the format of HLL. All such interim payments shall be regarded as payment by way of advances against final payment only, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re erected. Any certificate given by the officer relating to the work done or materials delivered forming part of such payment, may be modified, or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evident that any work or material so which it relates is /are in accordance with the contract and certificate. Any such interim payment,/any part there of shall not in any respect conclude, determine or affect in any way powers of the engineer in charge under the contract or any of such payment s be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.
25. If contractor is executing any extra items as per direction of Engineer in charge / Officer in charge, the rates shall be worked out as per the latest CPWD Schedule of Rates and in case, the item is not included in the CPWD schedule, the rate shall be arrived as per prevailing Market rates.
26. The Quantity shown in the schedule is an approximate estimated quantity. No rate revision will be entertained if the quantity increases/decreases due to the site condition while executing the work.

27. Water and Electricity: The contractor shall make his own arrangement for water and electricity required for the works. HLL will not be responsible for the supply of either electricity or water.
28. During the execution of work, the contractor or authorized representative/s at least one person having technical qualification should be present at site.
29. The contractor shall comply with by-laws and regulation of local and statutory authorities having jurisdiction over the work and shall be responsible for payment of all statutory fees and other charges and the giving and receiving of all necessary notices and the Owner shall be kept informed of the said compliances with by-laws, payment made, notices issued and received. All statutory payments shall be made by the Contractor and the same will be reimbursed by HLL on producing original challans/receipts.
30. Electrical
The work shall be carried out by a contractor holding valid licence issued by the State Government/Competent Authority for carrying out installation work of all voltage classes involved, under direct supervision of the persons holding valid certificates issued or recognized by the state government/competent authority.
31. Final payment shall be paid only after clearing the site as per direction of Engineer-in-charge/ Officer in charge.

13) CORRESPONDENCE

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

ASSOCIATE VICE PRESIDENT (PROJECTS),
PROJECTS DIVISION,
HLL LIFECARE LIMITED (A Government of India Enterprise)
Corporate Head Office, Poojappura.P.O,
Thiruvananthapuram – 695012,
Kerala, India
Phn: 0471- 2354949, 2775588
E-mail: sreekumar@lifecarehll.com, harikrishnankp@lifecarehll.com

14) SETTLEMENT OF DISPUTES

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

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

SCHEDULE III

ACCEPTANCE FORM

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

From

To

ASSOCIATE VICE PRESIDENT (PROJECTS),
PROJECTS DIVISION,
HLL LIFECARE LIMITED (A Government of India Enterprise)
Corporate Head Office, Poojappura.P.O,
Thiruvananthapuram – 695012,
Kerala, India
Phn: 0471- 2354949, 2775588
E-mail: sreekumar@lifecarehll.com, harikrishnankp@lifecarehll.com

Dear Sir,

I / We, hereby offer to supply/construct/erect/install/commission the work as detailed in schedules/drawings hereto or such portion thereof as you may specify in the acceptance of Bid at the price given in the price bid and agree to hold this offer open till 120 days after the date of bid opening prescribed by the purchaser/Owner. I/We have understood the terms and conditions mentioned in the invitation for bid and Conditions of Contract furnished by you and have thoroughly examined the specifications quoted in the bid document/drawings hereto and are fully aware of the nature of the scope of work required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above.

Yours faithfully,

SIGNATURE OF THE BIDDER

SCHEDULE IV
SCHEDULE OF WORK

Sub: **Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.**

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
A	CIVIL WORKS				
1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead .	5	SQM		
2	Dismantling steel work in window frames, door frames and built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	10	Kg		
3	Dismantling tile work in floors,walls and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles up to 40 mm	5	SQM		
4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50metres lead as per direction of Engineer-in-charge.In cement mortar	2	Cum		
5	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	2	SQM		
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	2	SQM		
7	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:4 (1 cement : 4 coarse sand)	5	Cum		
8	12 mm cement plaster on single or half brick wall of mix :1:4 (1 cement: 4 coarse sand)	25	SQM		
9	PAINTING WORK				
a)	Preparing the surface by scraping and cleaning thoroughly by removing any algae, fungus and loose mortar and washing, cleaning, levelling etc complete at all heights as directed by the Engineer in charge.	20	SQM		
b)	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	25	SQM		
c)	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	20	SQM		
d)	Wall painting (Two or more coats) with Exterior plastic Emulsion paint of approved brand and manufacture to give an even shade Make: Asian Paints/ICI/NEROLAC/BERGER	25	SQM		
e)	Wall painting (Two or more coats) with interior plastic emulsion paint of approved brand and manufacture to give an even shade . Make: Asian Paints/ICI/ NEROLAC/ BERGER	300	SQM		
f)	Painting with synthetic enamel paint (Two or more coats) of approved brand and manufacture of required colour to give an even shade. Make: Asian Paints/ICI/NEROLAC/BERGER	50	SQM		

SCHEDULE IV
SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
10	Providing and laying vitrified floor tiles (Size of Tile: 600x600 mm and thickness 10mm (min), as specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.	10	SQM		
11	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge. In dado on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	10	SQM		
12	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of</p> <p>the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p> <p>12.5 mm thick square edge PVC Laminated Gypsum Tile (Recommended make: Armstrong or equivalent) of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.</p>	250	SQM		
13	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering, finishing and reinforcement -1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	3	Cum		

SCHEDULE IV
SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
14	Providing and fixing 18 mm thick gang saw cut Granite, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including providing necessary holes & opening, rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Area of slab over 0.50 sqm ; Granite of any colour and shade	30	SQM		
15	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work	50	Metre		
16	ALUMINIUM WORK				
a)	Providing and fixing powder coated (minimum thickness of powder coating 50 micron) aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS: 733 and IS:1285, transparent or dyed to required shade according to IS:1868. fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt, EPDM rubber / neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/panelling, C.P.brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately, if required)				
i)	For fixed portion	600	Kg		
ii)	For shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket as required	100	Kg		
b)	Providing and fixing 12mm thick prelaminated three layer medium density (exterior grade) particle board Grade I, Type II conforming to IS:12823 bonded with phenol formaldehyde synthetic resin, of approved brand and manufacture in panelling fixed in aluminium door, windows shutters and partition frames with C.P. brass/ stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.				
(i)	Prelaminated particle board with decorative lamination on both sides	120	SQM		
c)	Providing and fixing glazing in aluminium doors & window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item).				
(i)	With glass panes of 5.50 mm thickness (weight not less than 13.75 kg/sqm)	75	SQM		
d)	Supplying & Fixing Aluminium sliding Doors using 1.5mm thick sections including all cost of Materials, Labour etc. complete as per the instruction of the EIC	10	SQM		

SCHEDULE IV
SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
e)	Providing, supplying and fixing white mat film to glass of door and fixed partitions as directed by the Engineer in charge as per design and pattern to exact finish including all charges etc complete	20	SQM		
f)	Providing and fixing hydraulic door closer of approved brand and manufacture marked, Hardwin Euro-20, Everite or equivalent including all charges	20	No		
g)	Providing and fixing American door handle of approved brand and manufacture including all charges.	30	No		
h)	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :300x10 mm	15	No		
i)	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	20	No		
j)	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineer in-charge.	15	Each		
17	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement, patch fittings and making necessary holes etc. for fixing required door fittings such as lock etc. all complete as per direction of Engineer-in-charge including Door Handle and all fittings. Make of Glass: Saint Gobain or equivalent	5	SQM		
18	Providing and fixing vertical blinds of approved make, color & pattern . The blinds to be fixed and commissioned as per manufactures' specification. The work to be completed to the satisfaction & approval of the EIC / Architect. (Recommended Make: VISTA - CASCADE TYPE or equivalent)	15	SQM		
19	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes of approved make and sections as	100	Kg		
20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe :32 mm dia	4	Each		
21	Providing and fixing Counter top Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the opening on granite tops wherever required : 610x510 mm bowl depth 200 mm Make: Nirali or equivalent	4	Each		
22	Providing and fixing PVC floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors. Make: Supreme, Finolex, Prince etc., 110mm dia inlet 110mm dia outlet	25	Each		

SCHEDULE IV
SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
23	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.: 15 mm nominal bore: Make: Jaguar or equivalent	4	Each		
24	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.:15 mm nominal bore. Make: Jaguar or equivalent	4	Each		
25	Supplying, fixing and joining with solvent cement pasted SWR 6kg/sqcm CPVC pipes joining specials such as tees, bends, elbows, butterfly valves etc. including cutting masonry or concrete floors, slabs, walls etc, wherever necessary for taking connections, embedded in cement mortar complete for all water lines and connected to the existing connection. MAKE: HYCOUNT/Supreme				
a)	50mm	20	m		
b)	40mm	20	m		
c)	32mm	20	m		
d)	25mm	30	m		
e)	20mm	100	m		
26	Liquid waste treatment : Providing and placing in position 150 Litre PVC tank with lid (Sintex tank or equivalent) near the main waste water outlet of lab for collecting liquid waste water for pre-treatment purpose and safe disposal to drain. Suitable SS 304 valves (Make: Leader or equivalent), inlet & outlet pipe connections shall be provided at the inet and outlet of tank etc. complete.	1	Job		

SCHEDULE IV
SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
B	ELECTRICAL WORKS				
1	Point wiring in PVC conduit, with Modular type switch: Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required - Note : UPS Points shall be wired seperately from UPS DB. (Recommended Makes: RR Kabel/National/Ralison/RKG/Finolex/Polycab / Havells)	110	Point		
2	Power plug wiring in PVC conduit (2x4 sq mm) : Wiring for light/power plug with 2x4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required. Note : UPS Points shall be wired seperately from UPS DB. Note : UPS Points shall be wired seperately from UPS DB.(Recommended Material : Polycab, RR Kabel, V Guard, Havells)	500	m		
3	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. Note : UPS Points shall be wired seperately from UPS DB.(Recommended Material : RR Kabel/National/Ralison/RKG/Finolex/Polycab / Havells)				
a)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	250	m		
b)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	350	m		
4	Telephone wiring in existing conduit : Supplying and drawing 2 pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required. (Recommended Material : RR Kabel/National/ Ralison/RKG/Finolex/Polycab / Havells)	500	m		
5	S/F PVC conduit : Supplying and fixing of following sizes of medium class PVC conduit (ISI brand) along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
a)	25 mm	250	m		
6	S/F Modular type switch/ socket : Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
a)	Telephone socket outlet	15	Each		
7	S/F Modular boxes, base & cover plate : Supplying and fixing 1 or 2 module (75 mmx75 mm),GI box along with modular base, cover plate for modular switches in recess etc as required.	15	Each		
8	S/F light plug point modular type accessories : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection,painting etc as required,	90	Each		
9	S/F Power plug point with modular type switch : Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 15/16 and 15/16 amps modular switch, connection,painting etc as required.	25	Each		

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Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
10	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.	1000	m		
11	Supply & Fixing of RJ 45 data outlet in suitable size GI box with modular plate and cover in front on surface or in recess including connections complete.	50	Nos.		
12	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/6 A modular switch, connections etc. as required.	25	Each		
13	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (For UPS and Raw Power)				
a)	6 way (4 + 18), Double door	2	Each		
14	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (For Lighting - Raw Power)				
a)	4 way (4 + 12), Double door	1	Each		
15	S/F 'C' series, MCB : Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single pole	25	Each		
b)	Triple pole	12	Each		
c)	Triple pole and neutral	1	Each		
16	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	63A	3	Each		
17	S/F 20A SPN MCB industrial socket outlet : Supplying and fixing 20 amps, 240 Volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	15	Each		

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SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
18	Supply, installation, testing and commissioning of the following types of light fittings with all accessories on false ceiling, true ceiling or wall as directed and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required. All recessed type fixtures are to be supported independently with chains or GI wire anchored to the ceiling with anchoring bolt of necessary size. All loose wires above the false ceiling are to be neatly concealed by flexible conduits.				
a)	2 x 36 W CFL Square type (600 x 600mm) decorative recessed fitting complete with all accessories Make: Bajaj/Wipro/Philips or equivalent	60	Nos.		
b)	1 x 15 W round recessed type LED – Philips Green LEDi900 – 4000K or equivalent	25	Nos.		
19	SITC of Exhaust fan (upto 450mm sweep) complete with all mounting accessories (including cutting opening on walls and making good the surface) Make: Bajaj/Havells or equivalent	4	Nos.		
20	Supply, Installation, testing and commissioning of ceiling fan (600mm sweep), including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required. The Ceiling fan shall be double ball bearing type. (Make : USHA, Cromption High breeze or equivalent)	6	Nos.		
21	Supply, installation, testing and commissioning of Air Cooled High Wall mounted Split Air Conditioner of following capacity consisting of high wall mounted type room unit (fan coil) with cordless remote control and one number outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, fixing the outdoor unit on a raised platform as per manufacturers recommendation and fixing of room (fan coil) unit on wall, standard 5m distance refrigerant copper piping with 13mm nitrile rubber insulation, providing and making interconnection between room & condenser as per site conditions, comprising of 1" dia drain PVC pipe with insulation 4m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit, ODU MS stand, first charge refrigerant gas, suitable stabilizer etc complete as required. (Make : Voltas/Blue Star/Siemens/Hitachi/Carrier)				
a)	1 TR, 5 star rated as per BEE	10	Nos		
b)	2 TR, 5 star rated as per BEE	4	Nos		

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Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
22	Supply, Installation, Testing & Commissioning of Three phase meter box, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, IP54, wall / floor mounting, dust and vermin proof, powder coated, outdoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system including internal wiring with suitable size wires, rotary handle, spreaders, 3mm thick gland plate, hinged type door with neoprene gasket etc. The panel shall include supply & installation of following switchgears, metering instruments and accessories as per specification. (Including Three phase four wire, whole current meter , direct reading type IS 13779 (1999).F= 50 Hz ± 5 %, Ib =20 Amp, I _{max} = 100 Amp, Accuracy Class 1.0. Power factor range - Zero Lag - Unity- zero Lead, 3 nos. Suitable ratio CT with Acc. Class 0.5, 10VA, 3 nos 200A rewirable type bakelite fuse unit with 1 no. Neutral link, 1 no. 200A, FP, AC23A, 415V, 50Hz switch disconnector fuse unit with Din type HRC fuse of suitable rating in separate cubical. The meter board shall have 250 Amp TPN busbars of high conductivity electrolytic quality Aluminium alloy, earth bus of required size, 4P terminal connectors, control wiring with all required accessories complete.	1	Set		
23	S/L 10 SWG copper wire in ground : Supplying and laying 10 SWG copper wire on surface / recess / groundloop earthing, including soldering connection / termination with Cu thimble etc as required	25	m		
24	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2	set		
25	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (Part 1) amended upto date.				
	a) 4 C x 16 sqmm	45	m		
	b) 4 C x 10 sqmm	20	m		
26	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	a) 4 C x 16 sqmm	4	no		
	b) 4 C x 10 sqmm	2	no		
27	Modification of existing Fire Alarm System as per the False ceiling and new layout of the facility.				
	a) Re installation of the existing Fire alarm system consisting of smoke detectors, Manual call points, Hooters, Fire Alarm Panel etc in a proper manner to make the system functional in all respect.	1	Job		
	b) SITC of 2C X 1.5 sq mm Cu armoured fire cable RED color all complete with clamps and accessories.	100	Mtr		
	c) Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required.	Nos.	2		
	d) Supply, fabrication and fixing 3 nos MS Fire buckets on suitable fabricated MS angle iron stand with hook, painting with red paint & filled with dry sand as required with all required accessories.	Set	1		
	e) Supply and providing First Aid Chart duly framed and placed in a conspicuous location for clear vision.	No.	1		
28	Supply ,Installation ,Testing & commissioning of the following items for CCTV-SECURITY SYSTEM :				

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SCHEDULE OF WORK

Sub: Civil & Electrical works for Setting-up of Major Diagnostic Lab at HLL Facility, Kharghar, Maharashtra - reg.

SI No	Item Description/Work	Quantity	Unit	Rate in Rs	Amount in Rs
a)	Indoor IR Dome camera : 1/3" CCD,530TVL, 1.0 lux,AWB / BLC / AGC , min 20m range, Built-in IR illumination, white color case, PAL-CE/FCC approved., make CP PLUS or equivalent	6	Nos.		
b)	Outdoor IR Bullet camera : 1/3" CCD,530TVL, 1.0 lux,AWB / BLC / AGC , ,min 20m range,Built-in IR illumination, white color case, DC12V, PAL-CE/FCC approved., make CP Plus or equivalent	2	Nos.		
c)	Power supply unit for above camera as specified by camera manufacturer -12VDC 10A	1	Nos.		
d)	Digital Video Recorder : 8-Channel Embedded HD DVR, 400fps, Real-time, with 2 TB HDD and English OSD, 230VAC. Rate shall be inclusive of all accessories, termination of cables, etc complete.	1	Nos.		
e)	18" LED Color Monitors. Make: LG/Samsung	1	Nos.		
f)	Supply and Laying of RG-6 Coaxial video cable with ISI marked PVC conduit including terminations with suitable BNC, etc complete. Make Technoflex/Neolex/Finolex	160	m		
29	Providing and fixing Shelves/ shutters for Cupboards/ wardrobe made out specified type of boards with teak wood beading on all edges etc., including cost of labour for fixing the builder's hardware etc., complete all as per specifications and directions of Engineer in charge in DOUBLE/ SINGLE SHUTTERS in all floors at all heights. including all fittings ,auto close hinges , locking arrangements, Using 19mm thick 1st quality hot pressed resin bonded WWR grade commercial block board	75	SQM		
30	Supply and Fixing 6U (600x1000 mm) rack powder coted Rack with 3x5A Power Manager, Front door with toughened glass, top and bottom cable entry provision.	1	No		
31	Providing and fixing of Aluminium composite panel (Make: Armstrong or equivalent) of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & columns/beams with necessary aluminium frame works at required level (heights upto 12 metres) made out of 50x25x3mm C section or equivalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods, scaffolding for fixing etc. complete as per the direction of Engineer in charge.	25	Sqm		
TOTAL AMOUNT					
APPLICABLE TAXES					
TOTAL AMOUNT IN RUPEES (INCLUSIVE OF TAXES)					

TOTAL AMOUNT IN WORDS

I AGREE TO EXECUTE THE WORKS AS PER THE SCHEDULE AND RATES QUOTED BY ME AS ABOVE

SEAL & SIGNATURE OF CONTRACTOR