

E-TENDERING
HLL/PSD/2026-27/TENDER/51
Dt: 12.08.2026



HLL Lifecare Limited
(A Govt.of India Enterprise)
CIN : U25193KL1966GOI002621
Corporate Head Office, Poojappura.P. O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573
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HLL Lifecare Limited (HLL) hereby invites online bids through CPP for **Setting up of Dialysis Centres on Turnkey Basis in Himachal Pradesh.**

Description	Page No
Notice inviting Tender (NIT)	3
General Instruction To Bidders	4-8
Instructions To The Bidders (ITB)	09– 15
General Conditions of Contract (GCC)	16– 24
Special Condition of Contract (SCC)	25
List of Requirements	26
Technical Specifications	27 – 316
Forms and Declarations	317 – 327
MAKE/MODEL/HSN Code of Equipment	328
Manufacturer Authorization Form and Consortium Agreement	329 – 332
Bank Guarantee Form for Performance Security	333 –338
Price Schedule	339 – 340
Contract form for Comprehensive Annual Maintenance Contract	341 – 342
Consignee Receipt Certificate	343
Performa of Final Acceptance Certificate by the Consignee	344 – 345
Undertaking Letter	346
Consignee Address	347 – 348
Technical Specification Compliance Sheet	349
Check List	350 – 351
General Information Manufacturer/Supplier	352
Pre Contract Integrity Pact	353 – 358

HLL LIFECARE LIMITED
(A Government of India Enterprise)
Procurement Services Division
Corporate Head Office, Poojappura.P.O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573

SECTION A

NOTICE INVITING TENDER (NIT)

HLL/PSD/2026-27/TENDER/51

11.08.2026

HLL Lifecare Limited (HLL), a Government of India Enterprise invites online bids from eligible, competent and experienced bidders who are capable of executing the following item/work meeting the requirements as per our tender.

SI No	Particulars	Description
1	Name of Item/Work	Setting up of Dialysis Centres on Turnkey Basis in Himachal Pradesh
2	List of Required Items	Section E
3	Technical Specification	Section F
4	EMD	Rs 2,00,000.00 (Rupees Two Lakhs only)
	Bid fee	Rs.5,000.00 (Rupees Five Thousand only)
5	HLL A/c Details for payment of Tender Fees and EMD (Payment mode: NEFT/RTGS)	Name of Bank : HDFC Bank Limited, Trivandrum A/c number : 00630330000035 IFSC Code : HDFC0000063 Branch name : Vazhuthacaud Branch, Thiruvananthapuram
6	Period of completion	90 days from the date of purchase order
7	Eligibility criteria for Bidders	As per the document
8	Last date and time for online submission of online bids	22.08.2026 at 17:00 hrs
9	Date and time of opening of the-Tender	24.08.2026 at 10:00 hrs
10	Address for Communication at HLL regarding the tender	Vice President (PS) & GH (HCS) Procurement Services HLL Lifecare Limited Corporate & Regd Office HLL Bhavan, Poojappura, Thiruvananthapuram-695012 E-mail: sdrbdsouth@lifecarehll.com

Vice President (PS) & GH (HCS)

GENERAL INSTRUCTIONS TO BIDDERS

1. This tender is an e-Tender and is being published online in Government eProcurement portal, <https://etenders.gov.in/eprocure/app>
2. Bid documents including the Bill of Quantities (BoQ) can be downloaded free of cost from the Central Public Procurement Portal of Government of India (e-portal). All Corrigendum/extension regarding this e-tender shall be uploaded on this website i.e. <https://etenders.gov.in/eprocure/app>.
3. The tender and its corrigendum/extension will also be published in our company website, URL address: <http://www.lifecarehll.com/tender>.
4. The tendering process is done online only at Government eProcurement portal (URL address: <https://etenders.gov.in/eprocure/app>). Aspiring bidders may download and go through the tender document.
5. All bid documents are to be submitted online only and in the designated cover(s)/envelope(s) on the Government eProcurement website. Tenders/bids shall be accepted only through online mode on the Government eProcurement website and no manual submission of the same shall be entertained. Late tenders will not be accepted.
6. The complete bidding process is online. Bidders should be in possession of valid Digital Signature Certificate (DSC) of class II or above for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. If the envelope is not digitally signed & encrypted the Purchaser shall not accept such open Bids for evaluation purpose and shall be treated as non-responsive and shall be rejected.
7. Bidders are advised to go through "Bidder Manual Kit", "System Settings" & "FAQ" links available on the login page of the e-Tender portal for guidelines, procedures & system requirements. In case of any technical difficulty, Bidders may contact the help desk numbers & email ids mentioned at the e-tender portal.
8. Bidders are advised to visit CPPP website <https://etenders.gov.in> regularly to keep themselves updated, for any changes/modifications/any corrigendum in the Tender Enquiry Document.
9. The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the Government eProcurement Portal.

9.1 Registration

- a) Bidders are required to register in the Government e-procurement portal, obtain 'Login ID' & 'Password' and go through the instructions available in the Home page after log in to the CPP Portal (URL: <https://etenders.gov.in/eprocure/app>), by clicking on the link "Online bidder Enrolment" on the CPP Portal which is free of charge.
- b) As part of the enrolment process, the bidders will be required to choose a unique user name and assign a password for their accounts.
- c) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- d) They should also obtain Digital Signature Certificate (DSC) in parallel which is essentially required for submission of their application. The process normally takes 03 days' time. The bidders are required to have Class II or above digital certificate or above with both signing and encryption from the authorized digital signature Issuance Company. Please refer online portal i.e. - <https://etenders.gov.in/eprocure/app> for more details.
- e) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or above Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify /nCode / eMudhra etc.), with their profile.

- f) Bidder then logs in to the site through the secured log-in by entering their user ID/password and the password of the DSC / e-Token.
- g) The Bidder intending to participate in the bid is required to register in the e-tenders portal using his/her Login ID and attach his/her valid Digital Signature Certificate (DSC) to his/her unique Login ID. He/She have to submit the relevant information as asked for about the firm/contractor. The bidders, who submit their bids for this tender after digitally signing using their Digital Signature Certificate (DSC), accept that they have clearly understood and agreed the terms and conditions including all the Forms/Annexure of this tender.
- h) Only those bidders having a valid and active registration, on the date of bid submission, shall submit bids online on the e-procurement portal.
- i) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- j) Ineligible bidder or bidders who do not possess valid & active registration, on the date of bid submission, are strictly advised to refrain themselves from participating in this tender.

9.2 Searching for Tender Documents

- a) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Form of Contract, Location, Date, Value etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization
- b) Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the CPP Portal to intimate the bidders through SMS/ e-mail in case there is any corrigendum issued to the tender document.
- c) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk

9.3 Preparation of Bid

- a) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- b) Please go through the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- c) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR /DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- d) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
- e) Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

10. More information useful for submitting online bids on the CPP Portal may be obtained at <https://etenders.gov.in/eprocure/app>

11. Tenderer are required to upload the digitally signed file of scanned documents. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document. Uploading application in location other than specified above shall not be considered. Hard copy of application shall not be entertained.

12. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The 24x7 Help Desk details are as below: -

For any technical related queries please call at 24 x 7 Help Desk Number:

0120-4001 062, 0120-4001 002, 0120-4001 005, 0120-6277 787

Note:- International Bidders are requested to prefix +91 as country code

E-Mail Support: For any Issues or Clarifications relating to the published tenders, bidders are requested to contact the respective Tender Inviting Authority

Technical - support-eproc@nic.in, Policy Related - cphp-doe@nic.in

13. Bidders are requested to kindly mention the URL of the portal and Tender ID in the subject while emailing any issue along with the contact details.

14. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender. Address for communication and place of opening of bids:

Vice President (PS) and GH (HCS)
Procurement Services Division
HLL Lifecare Limited
Corporate & Regd. Office
HLL Bhavan, Poojappura,
Thiruvananthapuram-695012

15. E-mail: sdrbdsouth@lifecarehll.com The bids shall be opened online at the **Office of the Vice President (PS) and GH (HCS)** in the presence of the Bidders/their authorized representatives who wish to attend at the above address. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be done on the next working day at same time and place.

16. More details can be had from the Office of the Vice President (PS) and GH (HCS) during working hours. The Tender Inviting Authority shall not be responsible for any failure, malfunction or breakdown of the electronic system while downloading or uploading the documents by the Bidder during the e-procurement process.

17. A firm/bidder shall submit only one bid in the same bidding process. A Bidder (either as a firm or as an individual or as a partner of a firm) who submits or participates in more than one bid will cause all the proposals in which the Bidder has participated to be disqualified.

18. Online Tender Process:

The tender process shall consist of the following stages:

- Downloading of tender document: Tender document will be available for free download on Government e-procurement portal (URL: <https://etenders.gov.in/eprocure/app>).
- Pre-bid meeting: Not Applicable for this tender
- Publishing of Corrigendum: All corrigenda shall be published on Government e-procurement portal (URL: <https://etenders.gov.in/eprocure/app>) and HLL website (URL address: <http://www.lifecarehll.com/tender>) and shall not be available elsewhere.

- iv. Bid submission: Bidders have to submit their bids along with supporting documents to support their eligibility, as required in this tender document on Government e-procurement portal. No manual submission of bid is allowed and manual bids shall not be accepted under any circumstances.
- v. Opening of Technical Bid and Bidder short-listing: The technical bids will be opened, evaluated and shortlisted as per the eligibility and technical qualifications. All documents in support of technical qualifications shall be submitted (online). Failure to submit the documents online will attract disqualification. Bids shortlisted by this process will be taken up for opening the financial bid.
- vi. Opening of Financial Bids: Bids of the qualified bidders shall only be considered for opening and evaluation of the financial bid on the date and time mentioned in critical date's section.

19. Tender Processing Fees and Bid Security (EMD):

Tender fee (Non-refundable) and EMD as per the tender conditions shall be paid separately, thru RTGS/NEFT transfer in the following HLL A/c details:

Name of Bank	: HDFC Bank Limited, Trivandrum
A/c number	: 00630330000035
IFSC Code	: HDFC0000063
Branch name	: Vazhuthacaud Branch, Thiruvananthapuram

Document of the above transactions (UTR NUMBER and DATE OF UTR) completed successfully by the bidder, shall be uploaded at the locations separately while submitting the bids online.

Note: Any transaction charges levied while using any of the above modes of payment has to be borne by the bidder. The supplier / contractor's bid will be evaluated only if payment is effective on the date and time of bid opening.

20. HLL Lifecare Limited does not bind themselves to accept the lowest or any bid or to give any reasons for their decisions which shall be final and binding on the bidders.
21. HLL Lifecare Limited reserves to themselves the right of accepting the whole or any part of the tender and bidder shall be bound to perform the same at his quoted rates.
22. In case, it is found during the evaluation or at any time before placing of PO or after its execution and during the period of subsistence thereof, that one or more of the eligibility conditions have not been met by the bidder or the applicant has made material misrepresentation or has given any materially incorrect or false information, appropriate legal/penal etc., action shall be taken by HLL Lifecare as deemed fit.
23. Conditional bids and bids not uploaded with appropriate/desired documents may be rejected outrightly and decision of HLL Lifecare Limited in this regard shall be final and binding.
24. The technical bids should be uploaded as per the requirements of NIT and should not contain price information otherwise the bid will be rejected.
25. HLL Lifecare Limited Ltd. reserves the right to verify the claims made by the bidders and to carry out the capability assessment of the bidders and the HLL Lifecare Limited's decision shall be final in this regard.
26. Submission Process:
For submission of bids, all interested bidders have to register online as explained above in this document. After registration, bidders shall submit their Technical bid and Financial bid online on Government e-procurement portal (URL: <https://etenders.gov.in/eprocure/app>).
- Note:- It is necessary to click on "Freeze bid" link / icon to complete the process of bid submission otherwise the bid will not get submitted online and the same shall not be available for viewing/ opening during bid opening process.**
27. For MSME registered bidders, the proof of registration in the line of work and monetary limit shall be attached.

- 28. Preference to Make In India products (For bids < 200 Crore):** Preference shall be given to Class 1 local Contractor as defined in Public Procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local Contractor will be as defined in Public Procurement (Preference to Make in India), Order 2017.
- 29.** If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor and if the OEM is a company then by a practicing cost accountant or a chartered accountant for OEM's other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 16.09.2020. Only Class-I and Class-II Local Contractors as per MII order dated 16.9.2020 will be eligible to bid. Non - Local Contractors as per MII order dated 16.09.2020 is not eligible to participate. However, eligible micro and small enterprises will be allowed to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

NOTE

- SSI/MSME units interested in availing exemption from payment of Tender Fee and EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC / Udyam
- If the bidder is a MSME, it shall declare in the bid document the Udyam Memorandum Number issued to it under the MSMED Act, 2006.
- If a MSME bidder do not furnish the UAM Number along with bid documents, such MSME unit will not be eligible for the benefits available under Public Procurement Policy for MSEs Order 2012.
- The Party has to provide Performance Security/Security Deposit if Tender is awarded to them.

Vice President (PS) & GH (HCS)

SECTION B

INSTRUCTIONS TO THE BIDDERS (ITB)

1. SCOPE OF THE BID

HLL Lifecare Limited invites online bids from the eligible bidders who are capable of executing the Specified work as per our tender conditions.

2. ELIGIBLE BIDDERS

A Bidder should have eligibility criteria as per the document to submit bids against this tender.

A firm/bidder shall submit only one bid in the same bidding process. A Bidder (either as a firm or as an individual or as a partner of a firm) who submits or participates in more than one bid will cause all the proposals in which the Bidder has participated to be disqualified.

3. COST OF BIDDING

- 3.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- 3.2 Tender documents may be downloaded free of cost from the Government e-procurement portal (URL: <https://etenders.gov.in/eprocure/app>). However, tender document fees, as mentioned in the NIT, is required to be submitted along with the online bid (Not applicable currently due to GO).

4. GETTING INFORMATION FROM WEB PORTAL

- 4.1. All prospective bidders are expected to see all information regarding submission of bid for the Work published in the e tender website during the period from the date of publication of NIT for the Work and up to the last date and time for submission of bid. Non observance of information published in the website shall not be entertained as a reason for any claim or dispute regarding a tender at any stage.
- 4.2. All bids shall be submitted online on the Government e-procurement portal only in the relevant envelope(s)/ cover(s), as per the type of tender. No manual submission of bids shall be entertained for the tenders published through Government e-procurement portal under any circumstances.
- 4.3. The Government e-procurement portal shall not allow submission of bids online after the stipulated date & time. The bidder is advised to submit the bids well before the stipulated date & time to avoid any kind of network issues, traffic congestion, etc. In this regard, the department shall not be responsible for any kind of such issues faced by bidder.

5. BIDDING DOCUMENTS

5.1. Content of Bidding Documents

The bidding documents shall consists of the following unless otherwise specified

- a. Notice Inviting Tender (NIT)
- b. General Instruction to Bidders
- c. Instructions to Bidders
- d. General Conditions of Contract (GCC)
- e. Special Conditions of Contract (SCC)
- f. Annexures to Bid
- g. Product List

- 5.2. The Bidder is required to login to the e-procurement portal and download the listed documents from the website as mentioned in NIT. He shall save it in his system and undertake the necessary preparatory work off-line and upload the completed bid at his convenience before the closing date and time of submission.

- 5.3. The bidder is expected to examine carefully all instructions, Conditions of Contract, Annexures, Terms, Product List in the Bid Document. Failure to comply with the requirements of Bid Document shall be at the Bidder's own risk.

6. CLARIFICATION OF BIDDING DOCUMENTS

- 6.1. A prospective bidder requiring any clarification of the bidding documents shall contact the office of the Tender Inviting Authority on any working day between 10 AM and 5 PM.
- 6.2 In case the clarification sought necessitates modification of the bid documents, being unavoidable, the Tender Inviting Authority may effect the required modification and publish them in the website through corrigendum.

7. AMENDMENT TO BIDDING DOCUMENTS

- 7.1. Before the deadline for submission of bids, the Tender Inviting Authority may modify the bidding document by issuing addenda.
- 7.2. Any addendum thus issued shall be a part of the bidding documents which will be published in the e-tender website. The Tender Inviting Authority will not be responsible for the prospective bidders not viewing the website in time.
- 7.3. If the addendum thus published does involves major changes in the scope of work, the Tender Inviting Authority may at his own discretion, extend the deadline for submission of bids for a suitable period to enable prospective bidders to take reasonable time for bid preparation taking into account the addendum published

8. SITE VISIT

The bidder is advised to visit and examine the Site of delivery/Work and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for delivery of item/construction of the Works. He shall examine the site condition and satisfy himself of the availability of materials at nearby places, difficulties which may arise during execution before submitting the bids. The costs of visiting the Site shall be at the bidder's own expense.

The bidder and any of his personnel or agents will be granted permission by HLL to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the bidder, his personnel or agents will release and indemnify HLL and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

9. Preparation of Bids

Language of the Bid

All documents relating to the bid shall be in the English language.

Documents Comprising the Bid

The online bid submitted by the bidder shall comprise the following:

- Copy of Registration (GST, PAN etc) Certificate duly attested.
- Copy of Documents in proof of eligibility criteria
- Copy of Documents in proof of Financial turnover.
- Other documents specified in the document.
- Priced Bill of Quantities.

Bidders shall not make any addition, deletion or correction in any of the bid documents.

Bid Prices

Rate shall be offered separately for each item as per price schedule. Selection of bidder will be based on the lowest price quoted for each item. The rates quoted by the Bidder shall include cost

of all materials and conveyance, labour charges, hire charges of plant and machinery, overheads and all incidental charges for execution of the contract. The rate quoted shall also include all statutory taxes as on the date of submission of the tender and such taxes shall be paid by the Contractor

GST or any other tax applicable shall be payable by the Contractor in respect of this contract and HLL will not entertain any claim whatsoever in respect of the same.

All taxes, royalty, Octroi and other levies payable by the Contractor under the contract, or for any other cause as of the date 28 days prior to the deadline for submission of bids shall be included in the rates, prices and total of bid price. The bid prices shall also cater for any change in tax pattern during the tenure of work.

The rates and prices quoted by the bidder shall remain firm during the entire period of contract.

The bidders shall NOT QUOTE ANY PRICE along with TECHNICAL BID. The price shall only be quoted in CPP using the BoQ format. The bid offer of the bidder will not be considered if price of the item(s) tendered are submitted along with technical bid. **The rate for the equipment and its CAMC shall be quoted in the price schedule A and the rate quoted for CAMC will not be considered for financial evaluation. The rate for infrastructure modification works shall be offered only in price schedule B, and the cumulative rates will be displayed automatically in price schedule A however, it will be the part of the financial evaluation.**

Currencies of Bid and Payment

The currency of bid and payment shall be quoted by the bidder entirely in Indian Rupees. All payments shall be made in Indian Rupees only.

Alterations and additions

The bid shall contain no alterations or additions, except those to comply with instructions, or as necessary to correct errors made by the bidder, in which case such corrections shall be initiated by the person or persons signing the bid.

The bidder shall not attach any conditions of his own to the Bid. The Bid price must be based on the tender documents. Any bidder who fails to comply with this clause will be disqualified.

Alternative Bids

Alternative Bids are not permitted.

However, the bidders can quote alternate models meeting the bid specifications of same manufacturer with single EMD.

If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. In a tender, either the Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

In case if a manufacturer authorized same model for more than one distributor / agent then both the bids shall be rejected.

a) Envelope - I (Tender Fee and EMD):

Tender fee (Non-refundable) and EMD as per the tender conditions shall be paid separately, through RTGS/NEFT transfer in the following HLL A/c details:

Name of Bank : HDFC Bank Limited, Trivandrum

A/c number : 00630330000035

IFSC Code : HDFC0000063

Branch name : Vazhuthacaud Branch, Thiruvananthapuram

Document of the above transactions completed successfully by the bidder, shall be uploaded separately while submitting the bids online.

NOTE

- SSI/MSE units interested in availing exemption from payment of Tender Fee and EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC / Udyog Aadhaar.
- If the bidder is a MSE, it shall declare in the bid document the Udyog Aadhar Memorandum Number issued to it under the MSMED Act, 2006.
- If a MSE bidder do not furnish the UAM Number along with bid documents, such MSE unit will not be eligible for the benefits available under Public Procurement Policy for MSEs Order 2012.
- The Party has to provide Performance Security/Security Deposit if Tender is awarded to them.

Envelope - II (Technical bid): Technical Bid should contain signed and scanned soft copy documents in proof of experience and duly filled and signed copy of documents specified.

Qualification Criteria for Contractors / firms

The bidder should be fulfilling the following preconditions and must also upload/submit documentary evidence in support of fulfillment of these conditions while submitting the bid.

SI No	Eligibility Criteria
1	Bidder should have a valid Certificate of the following:
	GST Registration
	IT PAN Card
	Certificate of incorporation / Memorandum of Article
	Copy of valid certificates for the above shall be submitted in proof of the same
	The bidder should submit the duly notarized Power of Attorney , issued by the competent authority in favour of the signatory of the bid in the stamp paper of appropriate value as per the Stamp Act
2	Bidder should be a Manufacturer or authorized dealer or a consortium. If the bidder is a consortium, not more than 2 partners allowed to bid and all the partners shall be jointly and severally liable to and responsible for all obligations towards the Purchaser for performance of contract/services including that of its Associates/Sub Contractors under the Contract
3	The bidder shall have successfully completed turnkey projects for establishment of Dialysis Centres/ICUs/OTs/SNCUs/Modular OT healthcare facilities during the last Seven years ending on 31.03.2026. These turnkey projects should encompass both necessary infrastructure works and equipment supply. The bidder must demonstrate project(s) with a cumulative value of at least Rs. 5.00 Cr, completed under a maximum of Five purchase orders. OR Successfully completed a minimum of 10 turnkey healthcare facilities involving both infrastructure works and medical equipment supply. a. Dialysis Centre - (The medical equipment supplied under such projects should include Hemo Dialysis Machine, Reprocessor and RO Plant). OR b. OT/Modular OT- (The medical equipment supplied under such projects should include Anesthesia Workstation, Multipara Monitor, OT Light and OT Table). OR c. ICU- (The medical equipment supplied under such projects should include Ventilator, Multipara Monitor, Syringe Pump/Infusion Pump and ICU Bed) The Duly filled and signed copy of the PERFORMANCE DECLARATION FORM as per the tender document is to be attached. Copies of work orders and satisfactory work completion reports issued by the Client/Authority concerned shall be submitted in proof of the same.
Note	For Govt. /Departmental works, Work orders and corresponding completion certificate issued by the Competent Authority (Exe. Engr, Supt. Engr., etc.) shall be submitted. Completion certificates for works issued by private parties shall be supported by TDS certificates/Bank Statement.
4	Documentary proof for establishing the average annual turnover of the bidder in the last three years, (2023-24, 2024-25 & 2025-26) is not less than Rs.500.00 Lakhs certified by a chartered accountant.

	The Duly filled and Signed copy of the FINANCIAL STATEMENT as per item no. 1 in Section G is to be attached
Note	Enclose audited Balance sheets, Profit & Loss Statements, and IT return statements certified by a Chartered Accountant as proof of financial status.
5	Technical compliance sheet with clear indication of deviation in specification, if any.
6	Quality certificate is mandatory for all the equipment and same to be submitted along with technical document.
7	HSN Code of Equipment as per SECTION H
8	Manufacturer authorization or Consortium agreement as per SECTION I .
9	Product brochure literature, write up etc.
10	Dully filled Performance Statement as per item no.2 of Section G
11	Dully filled Category Details of Organization (MSE) as per item no.3 of Section G .
12	Dully filled Self-Declaration – Make in India Preference as per item no. 4 of Section G .
13	Dully filled Self-Declaration -Compliance to Rule 144(XI) of the GFR 2017 as per item no. 5 of Section G
14	Dully filled Requisition form for E-payment as per item no. 6 of Section G
15	Has the Supplier/Firm/Company ever been black listed by the Govt./or the registering authority. (Yes / No) If NO, the duly signed declaration form as per item no-7 of Section- G is to be attached
Note	i. The bidder will be disqualified if they have any record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc. Including ongoing works. ii. If the order is terminated in the last one year, their bid will be treated as non-responsive iii. Self-Certificate: Non-Black Listing Certificate of no-blacklist in any firms in bidders letterhead
16	Duly Signed NO DEVIATION CERTIFICATE as per item no-8 of Section -G to be attached
17	Duly Signed ACCEPTANCE FORM as per item no-9 of Section -G to be attached
18	Duly signed COMPLETION PERIOD declaration as per item no-10 of Section -G to be attached
19	Dully Filled Technical Specification Compliance Sheet Section Q to be attached
20	Dully filled Check List sheet Section R to be attached
21	General information of the Manufacturer / Supplier as per Section S to be attached
22	Dully filled Pre Contract Integrity pact as per of Section - T to be attached

a) Envelope – III (Financial Bid): The Financial e-Bid through CPP portal:

All rates shall be quoted in the format provided and no other format is acceptable. If the price bid has been given as a standard format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the file, open it and complete the colored (Unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the file is found to be modified by the bidder, the bid will be rejected

Rate shall be offered separately for each item as per price schedule. Selection of bidder will be based on the lowest price. The rates shall be quoted in the format provided and no other format is acceptable.

The bidder shall provide CAMC (Comprehensive Annual Maintenance Charges) in the uploaded financial bid in CPP and this rate will not be considered for financial evaluation.

10. Amendment to Bidding Documents

- 6.1. Before the deadline for submission of bids, the Tender Inviting Authority may modify the bidding document by issuing addenda.
- 6.2. Any addendum thus issued shall be a part of the bidding documents which will be published in the e-tender/CPP website. The Tender Inviting Authority will not be responsible for the prospective bidders not viewing the website in time.

- 6.3. If the addendum thus published does involves major changes in the scope of work, the Tender Inviting Authority may at his own discretion, extend the deadline for submission of bids for a suitable period to enable prospective bidders to take reasonable time for bid preparation taking into account the addendum published.

11. Bid Opening

7.1 Bid Opening

Bids shall be opened on the specified date & time, by the tender inviting authority or his authorized representative.

7.2 Bid Opening Process

Opening of bids shall be carried out in the same order as it is occurring in invitation of bids or as in order of receipt of bids in the portal. The bidders & guest users can view the summary of opening of bids from any system. Bidders are not required to be present during the bid opening at the opening location if they so desire.

Envelope - I: Envelope- I Opening date shall be as mentioned in NIT Document. (Envelope – I shall contain scanned copy of Tender Fees and EMD).

Envelope - II: Opening date shall be as mentioned in NIT. The intimation regarding acceptance / rejection of their bids will be intimated to the contractors/firms through e-tendering portal.

If any clarification is needed from bidder about the deficiency in his uploaded documents in Envelope- I, he will be asked to provide it through CPP portal. The bidder shall upload the requisite clarification/documents within time specified by HLL Lifecare Limited, failing which tender will be liable for rejection. In extraordinary circumstances the bidders may be requested to submit the deficient documents intimated through the e-tendering portal additionally by e-mail (As mentioned in the NIT).

Envelope - III: The technically qualified bidders, financial bids shall be opened as per Eligibility Criteria. (Depending on evaluation of Envelope I, the date shall be intimated through CPP Portal)

7.3 Confidentiality

6.3.1 Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award has been announced in favour of the successful bidder.

6.3.2 Any effort by a Bidder to influence the Purchaser during processing of bids, evaluation, bid comparison or award decisions shall be treated as Corrupt & Fraudulent Practices and may result in the rejection of the Bidder's bid.

7.4 Clarification of Bids

6.4.1 To assist in the examination, evaluation, and comparison of bids, the Tender Inviting Authority may ask the bidder for required clarification on the information submitted with the bid. The request for clarification and the response shall be in writing or by e-mail or in portal, but no change in the price or substance of the Bid shall be sought, offered, or permitted.

6.4.2 No Bidder shall contact the Tender Inviting Authority on any matter relating to the submitted bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Tender Inviting Authority, he shall do so in writing.

7.5 Examination of Bids, and Determination of Responsiveness

6.5.1 During the bid opening, the Tender Inviting Authority will determine for each Bid whether it meets the required eligibility as specified in the NIT; is accompanied by the required documents and certificates. Further the purchaser may visit any of the facility established by the bidder for inspection and/or seek demonstration of the quoted products, anywhere in India as per the sole discretion of the purchaser. The inspection of such facility/ equipment shall be as a part of responsiveness of the technical bid. If the bidder doesn't arrange the facility visit / demonstrate the

equipment within the stipulated time period of 7 days & location given, then their bid will be treated as non-responsive.

6.5.2 A substantially responsive bid is one which conforms to all the terms, conditions, and requirements of the bidding documents, without material deviation or reservation.

A material deviation or reservation is one: -

- a. which affects in any substantial way the scope, quality, or performance of the Works;
- b. which limits in any substantial way, inconsistent with the bidding documents, the Purchaser's rights or the Bidder's obligations under the Contract; or
- c. whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.

6.5.3 If a Bid is not substantially responsive, it may be rejected by the Tender Inviting Authority, and may not subsequently be made responsive by correction or withdrawal of the nonconforming material deviation or reservation.

6.5.4 Non submission of legible or required documents or evidences may render the bid non-responsive.

6.5.5 The CAMC costing will not be added to determine the L1 bidder, however the bidders are informed to quote the CAMC rates in Section K of the tender.

7.6 Negotiation on Bids

The Tender Inviting Authority reserves the right to negotiate with the lowest evaluated responsive bidder.

12. Award of Contract

8.1 HLL will award the Contract to the Bidder whose bid has been determined to be substantially responsive and who has offered the lowest price.

8.2 In the eventuality of failure on the part of the lowest successful bidder to produce the original documents, or submit the security deposit, or acceptance of LOI/ Work order within the specified time limit, the Bidder shall be debarred in future from participating in Bids for three years and will be recommended for blacklisting by the competent authority. In such cases, the work shall be re-tendered.

8.3 The rates for the various items quoted by the Bidder shall be rounded to two decimal places. The decimal places in excess of two will be discarded during evaluation.

8.4 The Tender Inviting Authority reserves the right to accept or reject any Bid and to cancel the Bidding process and reject all Bids at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Tender Inviting Authority's action.

8.5 Notification of Award and Order Acceptance

8.5.1 The Bidder, whose Bid has been accepted, shall be notified of award by HLL prior to expiration of the Bid validity period by facsimile or e-mail confirmed by letter sent through post. This letter (hereinafter and in the Conditions of Contract called the "Letter of Acceptance") will state the sum that the Purchaser will pay the Bidder in consideration of the execution, completion and remedying defects, if any of the Works by the Contractor as prescribed by the Contract.

SECTION - C

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section D, List of requirements under Section E and Technical Specification under Section F of this document.

2. Patent Rights

The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

3. Country of Origin

All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.

The word “origin” incorporated in this clause means the place from where the goods are, manufactured, or from where the services are arranged.

The country of origin may be specified in the Price Schedule.

4. Performance Security

Within seven (7) days from date of the issue of notification of award by the contractor, shall furnish Performance Security to the Purchaser for an amount equal to five percent (5%) of the total value of the contract, valid up to 60 days after the date of **completion of 1-year warranty period** / all contractual obligations by the contractor, including the warranty obligations, initially valid for a total period of minimum 14 months from the date of supply, installation and handing over.

The Performance security shall be denominated in Indian Rupees.

a. It shall be in any one of the forms namely Account Payee Demand Draft drawn from any Nationalized bank in India or Bank Guarantee issued by a Nationalized bank in India, in the prescribed form as provided in

Section J of this document in favour of the Purchaser (Vice President (PS) & GH (HCS) – Procurement Services, HLL Lifecare Limited, Corporate & Regd Office, HLL Bhavan, Poojappura, Thiruvananthapuram – 695 012 E-mail: sdrbdsouth@lifecarehll.com) The validity of Bank Guarantee will be for a period up to Ninety (90) days beyond respective Warranty Period.

In the event of any failure /default of the contractor with or without any quantifiable loss to the Purchaser the amount of the performance security is liable to be forfeited. The Purchaser may do the needful to cover any failure/default of the contractor with or without any quantifiable loss to the Purchaser.

In the event of any amendment issued to the contract, the contractor shall, within Seven (7) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.

The Purchaser will release the Performance Security without any interest to the contractor on completion of the contractor's warranty and contractual obligations including submission of satisfactory performance certificates received from Hospital authorities.

5. Technical Specifications and Standards

The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections F and H of this document.

6. Packing and Marking

The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open Storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections F and G and in SCC under Section D. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections F and H and in SCC under Section D, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

7. Inspection, Testing and Quality Control

The purchaser and/or its nominated representative(s) will inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the supplier and/or its nominated representative(s)

After the issuance of purchase order, the supplier must bring all the equipment to one location for a pre dispatch inspection, which shall be conducted by atleast two HLL officials. The entire inspection cost (travel/food/accommodation) of HLL for the same to be incurred by the supplier. Post inspection, based on HLL official clearance, the equipment may be dispatched to the destination.

The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.

If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the

purchaser's inspector for conducting the inspections and tests again.

In case the contract stipulates pre-dispatch inspection of the ordered goods at premises decided by the purchaser, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.

If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier.

The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-dispatch inspection mentioned above.

Goods accepted by the Purchaser and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause15.

If required by the purchaser, Foreign supplier shall also have the equipment inspected by recognized/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to dispatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

For details of final inspection please refer section D, special conditions of Contract.

8. Terms of Delivery

Goods shall be delivered by the supplier in accordance with the terms of delivery as follows:

The goods shall be supplied, unpacked, installed and commissioned at the designated location as per the Section M. The project has to be completed within 90 days from date of order. All costs including insurance, loading, unloading etc., shall be borne by the supplier.

9. Transportation of Goods

The supplier shall at their own experience, arrange transport (including air/sea/land), loading & unloading of goods up to the consignee address.

10. Insurance:

Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

In case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire goods contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the goods duly insured. The insurance cover shall be obtained by the Supplier and should be valid till installation, testing and commissioning of the equipment.

If the equipment is not commissioned and handed over to the consignee within stipulated period, the insurance will be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

11. Spare parts

If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide

any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

a. The spare parts as selected by the Purchaser to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b. In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts, etc. at the supplier's risk and cost and

ii) Immediately following such discontinuation, providing the Purchaser, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser.

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser promptly on receipt of order from the Purchaser.

12. Incidental services

Subject to the stipulation, if any, in the SCC (Section – D), List of equipment (Section– E) and the Technical Specification (Section – F), the supplier shall be required to perform the following services.

i) Installation & Commissioning, Supervision and Demonstration of the goods and rectification of accidental damages occurred before handing over the system/site to Diagnostic centre/ Hospital authorities.

ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.

iii) Training to Doctors/Technicians on equipment in clinical aspects for operating and maintaining the equipment.

iv) Supplying required number of operation & maintenance manual for the goods.

v) Providing all the necessary as built drawings after the installation and commissioning.

vi) Provide all software updates during warranty period without any additional cost.

vii) All expenses required for Installation & Commissioning, Supervision, Demonstration and Onsite training shall be provided by the supplier to the Specialists/Doctors/Nursing Staff/Technicians etc, to whomsoever authorized by Hospital / HLL at the Clients site. The full expenditure, Boarding & Lodging, traveling of the necessary Service Engineers of Supplier and HLL Official if applicable, shall be at the scope of the supplier.

13. Distribution of Dispatch Documents for Clearance/Receipt to Goods

The supplier shall send all the relevant dispatch documents well in time to the Purchaser to enable the Purchaser clear or receive (as the case may be) the goods in terms of the contract. Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement.

Within 24 hours of dispatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of dispatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract):

Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;

Consignee Receipt Certificate as per Section M in original issued by the authorized
HLL/PSD/2026-27/Tender-053 Dt.11.08.2026

representative of the consignee;

Two copies of packing list identifying contents of each package; Inspection certificate issued by the nominated Inspection agency, if any. Certificate of origin;

Insurance Certificate as per GCC Clause 10

Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

14. Work Completion Period

Works shall be completed by the contractor within 90 days from date of order /handing over of site, whichever is later.

15. Warranty

The contractor warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The contractor further warrants that the work executed under the contract shall have no defect arising from design, materials (except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the contractor, that may develop under normal use of the executed works under the conditions prevailing in India.

This warranty shall remain valid for 1 year from the date of handing over entire facility / installation and acceptance by the Purchaser/Hospital.

In case of any claim arising out of this warranty, the Purchaser shall promptly notify the same in writing to the contractor.

Upon receipt of such notice, the contractor shall, within 8 hours on a 24 (hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The contractor shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause form on rectification will be applicable as pretender conditions.

In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.

If the contractor, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24 (hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the contractor and without prejudice to other contractual rights and remedies, which the purchaser may have against the contractor.

16. CAMC:

a) Bidder shall offer price for CAMC **separately** in Section K of this tender. The CAMC **shall not** be included in the price offered by the bidder in CPP and will not be part of the financial bid evaluation.

a. CAMC shall be awarded at the discretion of Purchaser/Hospital at the end of the warranty period.

b. The CAMC shall be for **9 years** after completion of prescribed warranty period. The bidder shall specify whether the AMC service provider is bidder/OEM/Authorized agent of OEM/ Any third party. The address of the CAMC service provider shall be provided including contact details.

c. Preventive Maintenance services during CAMC shall be rendered on quarterly basis with minimum gap between two services shall be not less than 90 days and not more than 115 days. In addition, all breakdown calls shall be attended to immediately and all major repairs shall be rectified within 7 calendar days from the date of intimation, as per tender, failing which, a penalty

of Rs.50,000/- per day thereof is leviable until the equipment is repaired and commissioned to the satisfaction of the end user, For this purpose supplier shall carry sufficient inventories to assure prompt replacement of defective parts as per tender

d. Breakdown calls shall be attended immediately and major complaints shall be rectified within 7 calendar days from the date of intimation. The breakdown calls shall not be combined with preventive maintenance calls.

e. In case the performance of CAMC services is not satisfactory and found below the 95% uptime level, the Purchaser / Hospital has the right to source the maintenance services from other means/agency at the risk and cost of supplier including termination of contract and legal/penal actions.

f. On receipt of CAMC order, the supplier shall furnish performance security for an amount equal to 3% of the CAMC value per annum in the form of Demand Draft or Performance Bank Guarantee, which will be renewed in term with value of every year till completion of CAMC period.

g. The cost of CAMC includes preventive maintenance with required testing, calibration as per technical/service/operational manual, labour and spares. The supplier shall undertake preventive maintenance as recommended in the manufacturer's technical/service /operational manual, but minimum once in three months during the **9 years** CAMC period for preventive maintenance.

h. The cost of CAMC may be quoted along with taxes and duties applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation, the price will be taken inclusive of such taxes and no claim for the same will be entertained later.

i. The payment of CAMC will be made once in every four months after satisfactory completion of said period, duly certified by Hospital authorities, but subject to valid Performance Security.

j. There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period.

k. During the CAMC period, all software updates should be provided free of cost.

17. Terms and Mode of Payment

All Payments to be disbursed by HLL Lifecare Limited, against recommendation of the Project Management Consultant (HLL) based on the tender terms & conditions.

The invoice shall be addressed to:

**HLL Lifecare Limited,
Central Marketing Office,
HLL Bhavan, #26/4,
Tambaram-Velachery Main Road,
Pallikaranai, Chennai – 600 100.
GST 33AAACH5598K1Z8
E-mail: sdrbdsouth@lifecarehll.com**

Payment Terms: No Advance payment shall be given.

- a) 80% of LOA / Purchase Order amount shall be released as 1st instalment on completion of civil work & supply of equipment and on submission of following documents duly verified and certified by the Hospital authority along with the 2 sets of original invoice copy duly certified and recommended by the concerned "Engineering In charge" of HLL along with documentary evidence and photographs as proof of receipt of material/ equipment against the Purchase Order.

Payment as per above shall be processed upon receipt of the following documents:

- a) Detailed Invoice
- b) Receipted Delivery Receipt, Packing List etc
- c) Manufacturer's certificate for quality of material
- d) Transit Insurance Policy/ Certificate
- e) Physical Verification and acceptance of material at Hospital Authority.

- b) 20% of LOA / Purchase Order amount shall be released, on handing over of Dialysis Unit to the concerned hospital authorities after the completion of all infrastructure works and installation and commission of all equipment & furniture, as Final Settlement on submission of Guarantee/ Warranty Certificate, Final Acceptance Certificate (FAC) with due acceptance of taking over from Hospital and witnessing signature of concerned representatives from Hospital authority & HLL official along with the 2 sets of original invoice copy duly certified and recommended by the concerned "Engineering In charge" of HLL along with documentary evidences, Installation and commissioning certificate, Asset Handover Certificates, Project completion certificate and Geo-tagged photographs as proof of successful installation and commissioning of material / equipment shall be furnished against the Purchase Order and PBG of 5% of contract value.

A copy of Invoice, packing list, warranty certificate, transit insurance certificate, final acceptance certificate etc shall be submitted to concerned hospital authorities also.

Payment shall be made subject to recoveries if any, by way of liquidated damages or any other charges as per terms & conditions of contract.

18. Delay in the contractor's performance

The contractor shall complete the works under the contract within the time schedule specified by the Purchaser and as incorporated in the contract.

Any unexcused delay by the contractor in maintaining its contractual obligations towards delivery of goods and performance of services shall render the contractor liable to any or all of the following sanctions:

- (i) Imposition of liquidated damages or
- (ii) Forfeiture of its performance security and
- (iii) Termination of the contract for default.

If at any time during the currency of the contract, the contractor encounters conditions hindering timely completion of works, the contractor shall promptly inform the Purchaser in writing about the same and its likely duration and make a request to the Purchaser for extension of the completion period accordingly. On receiving the contractor's communication, the Purchaser shall examine the situation as soon as possible and, at its discretion, may agree to extend the completion period, with or without liquidated damages for completion of contractor's contractual obligations by issuing an amendment to the contract.

When the period of completion is extended due to unexcused delay by the contractor, the amendment letter extending the delivery period shall, inter alia contain the following conditions:

- (a) The Purchaser shall recover from the contractor, by way of liquidated damages on the works, which the Contractor has failed to deliver within the delivery period stipulated in the contract.
- (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of applicable taxes or on account of any other tax or duty which may be levied in respect of the works specified in the contract, which takes place after the date of completion stipulated in the contract shall be admissible on such of the said works as are completed and performed after the date of the completion stipulated in the contract.
- (c) But nevertheless, the Purchaser shall be entitled to the benefit of any decrease in price on account of reduction in or remission of applicable taxes or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of completion stipulated in the

contract.

19. Liquidated damages

If the contractor fails to complete the works within the time frame(s) incorporated in the contract, the Purchaser shall, without prejudice to other rights and remedies available to the Purchaser under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 7.5% of the contract price or actual liability of the purchaser due to delayed works or total performance of the contractor, whichever is higher. Once the maximum is reached by the Purchaser may consider termination of the contract.

20. Termination for default

The Purchaser, without prejudice to any other contractual rights and remedies available to it (the Purchaser), may, by written notice of default sent to the contractor, terminate the contract in whole or in part, if the contractor fails to execute works or perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the purchaser

In the event of the Purchaser terminates the contract in whole or in part, the Purchaser may execute the works similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the contractor shall be liable to the Purchaser for the extra expenditure, if any, incurred by the Purchaser for arranging such procurement.

Unless otherwise instructed by the Purchaser, the contractor shall continue to perform the contract to the extent not terminated.

21. Termination for insolvency

If the contractor becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the contractor without any compensation, whatsoever, to the contractor, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser.

22. Force Majeure

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.

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.

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.

23. Termination for convenience

The Purchaser reserves the right to terminate the contract, in whole or in part for its (Purchaser's) convenience, by serving 7 days written notice on the contractor at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser. The notice shall also indicate inter alia, the extent to which the contractor's performance under the contract is terminated, and the date with effect from which such termination will become effective.

The goods and services which are complete and ready in terms of the contract for completion and performance within thirty days after the contractor's receipt of the notice of termination shall be accepted by the Purchaser following the contract terms, conditions and prices. For the remaining works, the Purchaser may decide:

- a. To get any portion of the balance completed at the contract terms, conditions and prices; and/or
- b. To cancel the remaining portion of the works and compensate the contractor by paying an agreed amount for the cost incurred by the contractor towards the remaining portion of the works.

24. Governing language

The contract shall be written in English language. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

25. Notices

Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

26. 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 anything connected therewith, etc shall as far as possible be mutually settled by the process of dialog and negotiation. The Courts at Chennai alone shall have jurisdiction in respect of settlement of any matter arising out or in connection with the contract.

27. Applicable Law

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

28. "The supplier must coordinate with the Hospital from the day one till completion of activities as per tender scope of work. Submit the "Final Acceptance certificate" as per template attached in the tender document (as per section N)

29. Fall Clause

The Bidder undertakes that it has not supplied/is not supplying similar product/systems or subsystems OR providing similar services at a price / charge lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found any stage that similar product/systems or sub systems was supplied by the Bidder to any of the Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time will be applicable to the present case and the difference in the cost would be refunded by the Bidder to HLL, if the contract has already been concluded.

Section -D
SPECIAL CONDITIONS OF CONTRACT (SCC)

1. General requirement for eligibility:

1. In order to decide the responsiveness of tender, the Purchaser may ask the bidder for Demonstration of equipment/system, presentations, sample, etc. and the bidder shall arrange Purchaser's requirement as and when so asked, failing which the tender shall be deemed as non-responsive.
2. The Licenses, Certifications, if any, required from the regulatory authorities in India with respect to this tender shall be produced along with the tender.
3. All technical details, catalogue, application details, shall be provided along with the tender.
4. Signed copy of Tender Document (all pages of Bid documents to be signed & stamped) by the Bidder as token of acceptance of the Terms & Conditions.
5. Duly filled, signed and sealed forms as per the Annexures of the tender document.
6. Power of attorney notarized by the authorized signatory to sign and submit the bid documents
7. Copy of PAN Card. (self-attested Copy)
8. GST Registration Certificate
9. Certificate of incorporation / Memorandum of Article (self-attested copy)
10. Last 3 financial years audited Profit & Loss, Balance Sheet duly certified by Chartered Accountant.
11. EMD as per tender document. In case of MSME suppliers who had availed the EMD exemption as per the applicable exemptions, has to submit the equivalent amount of EMD as Security deposit within 7 days from the date of award / Letter of Intent / Notification of Award.
12. One to one compliance statement to technical specification requirements against each item shall be provided along with the tender, with pamphlets/Catalogues.
13. Acceptance test should be done at designated hospitals, prior to handing over of equipment.
14. All details of pre installation and installation works along with schedules & drawings should be supplied within a week of award of order.

2. Final Inspection

The final inspection of the Goods will be done by the Technical Committee of the Purchaser and Hospital Authorities after installation and commissioning of the goods.

3. Warranty:

1. 1 year as per Section E (LIST OF REQUIREMENTS) for comprehensive warranty as per Conditions of Contract of the TE document for complete equipment from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution.
2. 95% uptime Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365(days) basis.
3. All software updates should be provided by the supplier free of cost during Warranty period.

4. Aftersales Service:

After sales service center should be available at on 24 (hrs) X 7 (days) X 365 (days) basis. Breakdowns/Complaints should be attended within 8 hrs. An undertaking by the Manufacturer shall accompany the tender that the spares for the equipment shall be available for at least 1 years + 9 years defect liability period from the date of supply.

SECTION E
LIST OF REQUIREMENTS

SI No	Name of the Equipment	Total Qty
1	ICU Bed(Manual 4 section with Matress)	49
2	BEDSIDE LOCKER	49
3	OVERBED TABLE	49
4	IV STAND WITH SS ROD AND CASTOR BASE	49
5	HEMO DIALYSIS MACHINE	49
6	RO PLANT SYSTEM -500LPH	19
7	RO PLANT SYSTEM-250 LPH	6
8	DIALYSIS REPROCESSOR	25
9	MULTI PARA MONITOR	49
10	SYRINGE PUMP	49
11	LARYNGOSCOPE	25
12	THERMOMETER- INFRARED TYPE	25
13	AMBU BAG ADULT	25
14	ELECTRONIC WEIGHING SCALE- ADULT	25
15	WHEEL CHAIR - FOLDABLE	25
16	CRASH CART	25
17	DRESSING TROLLEY	25
18	DRUG TROLLEY/MEDICINE CART	25
19	GLUCOMETER	25
20	STETHOSCOPE	25
21	BICARB MIXER	25
22	Scrub Station(SS with Tap)	25
23	Infrstructure Work (Civil, Electrical, Plumbing etc.) as per the scope of work mentioned in tender	1

SECTION E
Technical Specification

LIST OF ITEMS THAT REQUIRES MANUFACTURER AUTHORISATION AND CAMC

SI.NO.	EQUIPMENT
1	ICU BED (MANUAL 4 SECTION WITH MATTRESS)
2	BEDSIDE LOCKER
3	OVERBED TABLE
4	IV STAND WITH SS ROD AND CASTOR BASE
5	HEMO DIALYSIS MACHINE
6	RO PLANT SYSTEM -500LPH
7	RO PLANT SYSTEM-250 LPH
8	DIALYSIS REPROCESSOR
9	MULTI PARA MONITOR
10	SYRINGE PUMP
11	LARYNGOSCOPE
12	ELECTRONIC WEIGHING SCALE- ADULT
13	WHEEL CHAIR – FOLDABLE
14	CRASH CART
15	DRESSING TROLLEY
16	DRUG TROLLEY/MEDICINE CART
17	BICARB MIXER

1. MANUAL BED 4 SECTION WITH MATTRESS

(ICU BED- MECHANICAL, HANDLE OPERATED)		
1. USE		
1.1	Clinical Purposes	ICU beds are special hospital beds designed for ICUs to take care of critical patients. ICU beds facilitates comfortable transfer to and fro and has a provision of bedside diagnostic including X-ray investigations. Thus, they provide safety, comfort and convenience to the patients and caregivers alike.
1.2	Used by clinical department/ward	ICU (Intensive Care Unit)
2. TECHNICAL CHARACTERISTICS		
2.1	Technical Characteristics	1) Should have 4 sections and sectional mattress with perforated top. 2) Should have 4 separate mechanical operating function (Screw Lever mechanism) for Height adjustment (Hi- Low), Back rest, Knee rest and Trendelenburg/Reverse Trendelenburg. 3) Should have PPE head and foot board fixed/ detachable on the bed frame; 4 PPE side boards with 360-degree swivel mechanism/push button mechanism for operation. 4) Should have four section lying surface, three made of robust materials and having microbe free material & joined by corrosion resistant joineries. 5) The bed frame should be made of stainless-steel SS (304) with epoxy coating and should be easy to disinfect and maintain. 6) The bed should be radiolucent for using portable X- rays and supporting accessories like attaching urine bags and bed pans. 7) Should have indicator for correct height to operate Trendelenburg/Reverse Trendelenburg. 8) Clearance between Bed Base frame and Floor surfaceshould be having adjustable range in mm: 120-150 mm. 9) Should have Back Rest angular movement in range from 0-70° (degree) and Knee rest angular movementin range from 0-45 defgee 10) Should have Ergonomically designed detachable plastic/Stainless steel handles having outward locking mechanism. Handles are self-locking with a knob with aNylon grip. 11) Should have a therapeutic Weight bearing up to 150-200 Kg. 12) Should have heavy duty roller casters made up of Stainless Steel (304) ball bearing/ABS/Polyester with dual locking arrangement. 13) High density foam mattress washable and detachable in 4 parts.
2.2	User's Interface	Manual
2.3	Software and/ or standard of communication (wherever required)	NA

3. PHYSICAL CHARACTERISTIC		
3.1	Dimensions (in cm)	NA
3.2	Weight	To be specified by the Manufacturer/Supplier;
3.3	Noise	NA
3.4	Heat Dissipation	Not applicable
3.5	Mobility/Portability	Should be easily movable with minimal physical effort.
4. ENERGY SOURCE		
4.1	Power inputs	NA
4.2	Power consumption	NA
4.3	Battery backup	NA
5. ACCESSORIES. SPARE PARTS AND CONSUMABLES		
5.1	Accessories,(mandatory, Standard, operational); Spare parts (main ones) Consumable/reagents (open, closed system)	- Should be provided with Saline Stand made of Stainless Steel SS (304) grade. - Telescopic Saline Stand with two hooks with a provision to fix on all four corners of the beds and also in the middle of the bed on either side. - Mattress with cross sectional thickness of (100mm-250mm) with rex in cover as per the specs specified in Section (2.1) - Oxygen Cylinder holder should be provided detachable handles of plastic/SS (304) material/ ABSwith a Nylon grip.
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	NA
6.2	User's care, Cleaning, Disinfection & Sterility issues	Easy to clean and disinfect.
7. STANDARDS & SAFETY		
7.1	Certificates (pre-market, sanitary); Performance and safety standards (specific to the device type); Local and/or international	- Should comply with USFDA/CE/BIS - CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA
8.2	Requirements for sign off	Supplier to perform safety and operation check before hand over.
8.3	Training of staff (medical, paramedical, technicians)	Training of User on operation and basic maintenance.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	1 year including all spare parts and accessories.

10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. Service and operation manuals (original and Copy) to be provided. 3. Satisfactory certificate for any existing installation from government hospital
10.2	Other accompanying documents	List of essential spares and accessories with their part number and cost.
11. NOTES		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/ landline number)	Contact details of manufacturer and supplier to be provided.
11.2	Recommendations or warnings	Any warning sign should be adequately displayed.

2. BEDSIDE LOCKER

- Overall Size: 410L×410W×840H mm.
- Drawer having inbuilt sliding channel connected from bottom (no ball bearing channels allowed). Should be provided with recess to serve as handle
- Locker box made from machine pressed 0.8mm CRCA M.S. Sheet. Should be provided with recess to serve as handle
- Fitted with single piece die pressed, Seamless, Stainless Steel top with raised edges on three sides.
- Open Storage Space should be provided between the Drawer and Cabinet
- Legs frame made of 25mm square × 1.2mm thick CRC tube fitted with 2 pcs PVC stumps/ Rubber shoe in front and 2 pcs wheel at rear.
- Locker should be provided with two buffers at the back side.
- Finishing & workmanship in the medical furniture is of prime importance and must be of high standard. All corners shall be rounded off so that there shall be no sharp corners and holes should be burr free.
- All Mild Steel parts should be In-house, pre-treated and Epoxy powder coated with coating thickness 50 to 100 microns.
- Should conform to ISO quality standards.
- Warranty: 1 year.

3. OVERBED TABLE

- Overall dimensions should be 1000mm L x 435mm W x 825mm – 1180mm H.
- The top should be made of ABS / Membrane Pressed MDF having size of 880L x 435W x 28H mm.
- Aluminium extruded telescopic section fitted with smooth gear mechanism for height adjustment
- It should have MS base frame covered with durable high impact ABS Base cover.
- For ease in mobility, it should have castors of 50mm dia.

6. Finishing & workmanship in the medical furniture is of prime importance and must be of high standard. All corners shall be rounded off so that there shall be no sharp corners and holes should be burr free.
7. Top: MDF top with membrane press, should give anti-scratch Property with good surface finish
8. M.S tubular parts, linkages, flats are to be In-house, pre-treated and Epoxy powder coated with coating thickness 50 to 100 microns
9. Should conform to ISO quality standards.
10. Warranty: 1 Year.

4.IV STAND WITH SS ROD AND CASTOR BASE

- 1) Stainless Steel Vertical tube made of 31mm dia. X 1.2mm thick (304G).
- 2) Height adjustable SS IV Rod made of 12mm dia. SS rod (304G) with Two Hooks made of 8mm SS (304G) rod.
- 3) Approx. adjustable height 1280mm to 2220mm.
- 4) Strong SS tubular framework (304G).
- 5) Base constructed with five rectangular 40mm x 20mm x 1.2mm thick SS tubes (304G).
- 6) Base fitted with five synthetic body twin wheels castors, without brake.
- 7) Stainless steel rod with two hooks lockable with knob.
- 8) Should conform to ISO quality standards.
- 9) Warranty: 1 Year.

5. HEMO DIALYSIS MACHINE

Hemodialysis Machine		
1. Use		
1.1	Clinical purpose	Hemodialysis machine is used in dialysis procedure that filters a patient blood to remove excess water and waste products when the kidney is damaged, dysfunctional or missing.
1.2	Used by clinical department / ward	Dialysis Services
2. Technical characteristics		
2.1	Technical characteristics (specific to this type of device)	1) The hemodialysis machine should have a blood pump to achieve a unidirectional flow up to 400ml/min. 2) It should have a heparin pump, arterial line and venous line pressure monitors and functional air bubble detector. 3) Mixing proportion of unit with bicarbonate dialysis facility 4) Dialysate delivery should be from 300 to 500 ml/min or more. 5) It should have a conductivity meter and functional blood leak detector. 6) Dialysate temperature regulator with temperature of 35 to 39 deg C. 7) Built-in device for measurement and monitor of effective urea clearance (K) and dialysis dose (Kt/V) automatically during treatment. 8) Volumetric UF control 9) Safety devices functioning alarms, venous blood camp 10) Dialysate filter
2.2	User's interface	LCD display
2.3	Software and/or standard of communication (wherever required)	In-built
3. Physical Characteristics		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Noise (in dba)	N.A.
3.4	Heat dissipation	NA
3.5	Mobility, portability	Mobile
4. Energy source (electricity, Ups, solar, gas, water, cO2)		
4.1	Power requirements	220 V AC +/- 10%, 50 Hz
4.2	Battery operated	UPS with at least 2-hour battery backup
4.3	Protection	NA
4.4	Power consumption	As specified by manufacturer
5. Accessories, spare parts, consumables		
5.1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables / reagents (open, closed system)	All consumables required for installation and standardization of system to be given free of cost.

6. Environmental and departmental considerations		
6.1	Atmosphere / ambiance (air conditioning, humidity, dust ...)	Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity of upto 90% in ideal circumstances.
6.2	User's care, cleaning, Disinfection & sterility issues	To be specified by manufacturer.
7. Standards and Safety		
7.1	Certificates (pre-market, sanitary, ..); performance and safety standards (specific to the device type); local and/or international	1.Should comply with USFDA/CE/BIS Standards. 2.Should be CDSCO/SLA approved, as applicable
8. Training and Installation		
8.1	Pre-installation requirements: nature, values, quality, tolerance	To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up
8.2	Requirements for sign- off	Supplier to perform safety and operation check before hand over
8.3	Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided.
9. Warranty and Maintenance		
9.1	Warranty	01 years including all spares. Preventive maintenance visits at least once in each quarter.
10. Documentation		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: 1. User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams. 2. Service and operation manuals (original and Copy) to be provided.
10.2	Other accompanying documents	List of essential spares and accessories, with their part number and cost.
11. Notes		
11.1	Service support contact details (hierchy Wise; including a toll free/landline number)	Contact details of manufacturer, supplier and local service agent to be provided.
11.2	Recommendations or warnings	Any warning sign should be adequately displayed.

6. RO Plant 500 LPH

- a. Sand Filter – Capacity – 1000 lph, Media – Sand / Pebbles, MOC – FRP / Composite, Backwash : Automatic, Multiport valve : Timer based with 3 cycle backwash sequence, Pressure gauge and fittings – 1 set.

- b.** Activated Carbon Filter – Capacity : 1000 lph, Media : Carbon ID 900, MOC : FRP / Composite, Make: Pentair / equal, Backwash : Automatic, Multiport valve : Timer based with 3 cycle backwash sequence, Pressure gauge and settings : 1 set
- c.** Water softner/ High Definition Carbon/Ion Remover(As per feedwater quality) –Capacity : 1000 lph, Media : Ion exchange resins (ion exchange / thermax or equivalent)/ High Definition Carbon/ Ion Remover, Regeneration: Automatic, Multiport valve : Timer based with 3 cycle backwash/regeneration sequence, Pressure gauge and settings : 1 set
- d.** MEMBRANE ELEMENTS– Sufficient quantity and arrays to satisfy the output condition of 500 LPH at 50-75% rejection for the given water quality.
- e.** Antiscalent dosing system :Capacity : 3 lph, MOC : PP, Dosing tank : 50 ltrs, Level switch and fittings – 1 set.
- f.** UV Lamp with SS 304 Housing with quartz reflectors. Flow rate 500 LPH
- g.** The vessel size shall be at least 13” X 54”

II. WATER STORAGE TANK

- a.** Raw water storage tank sintex or equivalent capacity 1000 Litres.
- b.** Softened water tank sintex or equivalent, capacity 500 Litres.
- c.** RO Water storage tank should be stainless steel SS304 Grade – 500 Litres.

III. PUMP.

- a.** Raw water pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.
- b.** Softened water booster pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.
- c.** SS RO Distribution Pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.

IV. OTHERS

- 1) Should have 1 Micron pre-filter, 20 inch height and 4” diameter.
- 2) Should have automatic inlet shut-off valve
- 3) Should have Permeate and Concentrate flow meters.
- 4) Should have Digital display of critical parameters through range of sensors.
- 5) Should have User friendly RO controller and ensure automatic trouble free operations.
- 6) RO controller should have automatic and manual mode.
- 7) Should have automated pre treatment for RO.
- 8) Should have Salt rejection around 96 – 98%.
- 9) RO recovery range shall be 50-75%
- 10) Permeate Rate : 500 LPH, Concentrate Rate : 500-600 LPH
- 11) Should have P.E flexible tubing used to collect permeate into RO tank.
- 12) Should have Thermal motor protection.
- 13) Should have Pre-filter, post filter, primary and final pressure gauges.
- 14) Should have Flow control centre including concentrate and recycle valves.
- 15) Should have Auto flush valve in reject line.
- 16) Should have Low inlet pressure switch before HPP
- 17) 3 way Solenoid valve in feed before HPP
- 18) Inlet shutoff solenoid valve in smaller system 250 to 1000lph.
- 19) Glycerin filled SS pressure gauges at feed / high pressure / reject lines.
- 20) Panel mounted Rotameter in reject / re-circulate and permeate lines.
- 21) Ball check valve in recirculation line, Spring check valve in permeate line & Conductivity meter in permeate line & Globe / needle valves in re-circulate and reject lines.
- 22) Should have 5 micron cartridge filters big blue in feed line.
- 23) Should have Digital conductivity meter with programmable relay
- 24) Should have Alarms for Low Inlet pressure & Motor starter overload.
- 25) Frame shall be made of stainless steel – 304 grade
- 26) Membrane housing shall be made of stainless steel 304 grade or FRP.
- 27) Inlet plumbing shall be Sch 80 PVC.

- 28) High pressure plumbing shall be CPVC.
- 29) Permeate / concentrate tubing shall be Polyethylen / NSF approved wet parts.
- 30) CPVC Piping with SS push pull connectors.
- 31) Should operate on mains 220-240Vac, 50 Hz single phase power supply.
- 32) All wetted parts should be INERT, SS or compatible to Haemodialysis procedure.
- 33) Control enclosures should be NEMA 1 & Motor starters should be NEMA 4 X
- 34) The outlet of the RO system must conform to AAMI standards both in terms of chemical contamination and bacterial contamination. The endotoxin limit for the RO water is 1 Eu/ml and the limit of bacterial growth shall be not more than 200 CFU/ml. The Certificate / test report shall be obtained after installation and shall be produced along with invoice for payment.
- 35) Should supply Test kit for checking hardness of water / portable TDS Meter.
- 36) Replacement of all necessary filters including 1 micron & 5 micron, Replacement of Sand / Pebbles / Carbon, resins, UV Lamps, Antiscalent chemical, and Acetic acid cleaning whenever requires should be done free of cost during the warranty period and also in the CMC period.
- 37) RO Membrane shall be replaced at free of cost during the warranty period whenever required. The replacement charge for RO Membrane replacement during CMC period shall be included in the CAMC rates.
- 38) Should conform to ISO quality standards.
- 39) Warranty: 1 Year.

7. RO Plant 250 LPH

- a. Sand Filter – Capacity – 500 lph, Media – Sand / Pebbles, MOC – FRP / Composite, Backwash : Automatic, Multiport valve : Timer based with 3 cycle backwash sequence, Pressure gauge and fittings – 1 set.
- b. Activated Carbon Filter – Capacity : 500 lph, Media : Carbon ID 900, MOC : FRP / Composite, Make: Pentair / equal, Backwash : Automatic, Multiport valve : Timer based with 3 cycle backwash sequence, Pressure gauge and settings : 1 set
- c. Water softner/ High Definition Carbon/Ion Remover(As per feedwater quality) –Capacity : 1000 lph, Media : Ion exchange resins (ion exchange / thermax or equivalent)/ High Definition Carbon/ Ion Remover, Regeneration: Automatic, Multiport valve : Timer based with 3 cycle backwash/regeneration sequence, Pressure gauge and settings : 1 set
- d. MEMBRANE ELEMENTS– Sufficient quantity and arrays to satisfy the output condition of 500 LPH at 50-75% rejection for the given water quality.
- e. Antiscalent dosing system :Capacity : 3 lph, MOC : PP, Dosing tank : 50 ltrs, Level switch and fittings – 1 set.
- f. UV Lamp with SS 304 Housing with quartz reflectors. Flow rate 500 LPH
- g. The vessel size shall be at least 13" X 54"

II. WATER STORAGE TANK

- a. Raw water storage tank sintex or equivalent capacity 500 Litres.
- b. Softened water tank sintex or equivalent, capacity 500 Litres.
- c. RO Water storage tank should be stainless steel SS304 Grade – 500 Litres.

III. PUMP.

- a. Raw water pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.
- b. Softened water booster pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.
- c. SS RO Distribution Pump – 1 HP (1+1) – Crompton / Grundfos or equivalent.

IV. OTHERS

- 1) Should have 1 Micron pre-filter, 20 inch height and 4" diameter.
- 2) Should have automatic inlet shut-off valve
- 3) Should have Permeate and Concentrate flow meters.
- 4) Should have Digital display of critical parameters through range of sensors.
- 5) Should have User friendly RO controller and ensure automatic trouble free operations.
- 6) RO controller should have automatic and manual mode.
- 7) Should have automated pre treatment for RO.
- 8) Should have Salt rejection around 96 – 98%.
- 9) RO recovery range shall be 50-75%
- 10) Permeate Rate : 250 LPH, Concentrate Rate : 200-300 LPH
- 11) Should have P.E flexible tubing used to collect permeate into RO tank.
- 12) Should have Thermal motor protection.
- 13) Should have Pre-filter, post filter, primary and final pressure gauges.
- 14) Should have Flow control centre including concentrate and recycle valves.
- 15) Should have Auto flush valve in reject line.
- 16) Should have Low inlet pressure switch before HPP
- 17) 3 way Solenoid valve in feed before HPP
- 18) Inlet shutoff solenoid valve in smaller system 250 to 500lph.
- 19) Glycerin filled SS pressure gauges at feed / high pressure / reject lines.
- 20) Panel mounted Rotameter in reject / re-circulate and permeate lines.
- 21) Ball check valve in recirculation line, Spring check valve in permeate line & Conductivity meter in permeate line & Globe / needle valves in re-circulate and reject lines.
- 22) Should have 5 micron cartridge filters big blue in feed line.
- 23) Should have Digital conductivity meter with programmable relay
- 24) Should have Alarms for Low Inlet pressure & Motor starter overload.
- 25) Frame shall be made of stainless steel – 304 grade
- 26) Membrane housing shall be made of stainless steel 304 grade or FRP.
- 27) Inlet plumbing shall be Sch 80 PVC.
- 28) High pressure plumbing shall be CPVC.
- 29) Permeate / concentrate tubing shall be Polyethylen / NSF approved wet parts.
- 30) CPVC Piping with SS push pull connectors.
- 31) Should operate on mains 220-240Vac, 50 Hz single phase power supply.
- 32) All wetted parts should be INERT, SS or compatible to Haemodialysis procedure.
- 33) Control enclosures should be NEMA 1 & Motor starters should be NEMA 4 X
- 34) The outlet of the RO system must conform to AAMI standards both in terms of chemical contamination and bacterial contamination. The endotoxin limit for the RO water is 1 Eu/ml and the limit of bacterial growth shall be not more than 200 CFU/ml. The Certificate / test report shall be obtained after installation and shall be produced along with invoice for payment.
- 35) Should supply Test kit for checking hardness of water / portable TDS Meter.
- 36) Replacement of all necessary filters including 1 micron & 5 micron, Replacement of Sand / Pebbles / Carbon, resins, UV Lamps, Antiscalent chemical, and Acetic acid cleaning whenever requires should be done free of cost during the warranty period and also in the CMC period.

- 37) RO Membrane shall be replaced at free of cost during the warranty period whenever required. The replacement charge for RO Membrane replacement during CMC period shall be included in the CAMC rates.
- 38) Should conform to ISO quality standards.
- 39) Warranty: 1 Year.

8. DIALYSIS REPROCESSOR

DIALYZER REPROCESSOR		
1. USE		
1.1	Clinical purpose	Dialyzer preprocessor is a system which cleans the dialyzer for reuse on the same patient after completion of one dialysis cycle.
1.2	Used by clinical department/ward	Dialysis Unit
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	- Fully automatic reprocessing and disinfecting cycles. - Should be able to clean both high flux and low flux dialyzers and hemodialysis filters. - Should be safe for cellulose based and synthetic membranes. - Should be compatible with sterilant available in open market. - High standardization in cleaning, fiber bundle volume measuring, leak testing and chemical disinfecting - Should have LCD Screen and menu guided operations. - Water requirements - flow 3 litres/ minute and pressure 35-50 psi. - It should have regulators and pressure gauges to monitor pressures. - Safety Alarms, Audible & Visible Alarms.
2.2	User's interface	Manual
2.3	Software and/ or standard of communication (wherever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions(metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Noise (in dBA)	NA
3.4	Heat dissipation	NA
3.5	Mobility, portability	Fixed
4. ENERGY SOURCE		
4.1	Power requirements	220+/-10% V, 50/60 Hz
4.2	Battery operated	Yes, with battery backup
4.3	Protection	NA
4.4	Power consumption	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		

5.1	Accessories, (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open, closed system)	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambience (air conditioning, humidity, dust ...)	Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity of upto 90% in ideal circumstances.
6.2	User's care, Cleaning, Disinfection & Sterility issues	To be specified by manufacturer.
7. STANDARDS AND SAFETY		
7.1	Certificates (pre-market, sanitary,); Performance and safety standards (specific to the device type); Local and/or International	1. Should comply with USFDA/CE/BIS 2. CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre- installation requirements: nature, values, quality, tolerance	To be specified by manufacturer and compatible electrical accessories as per Indian standard set-up.
8.2	Requirements for sign- off	Supplier to perform safety and operation checks before hand over.
8.3	Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	• 01 year • Preventive Maintenance visits at least once in each quarter
10. DOCUMENTATION		
10.1	Operating manuals, set manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: User manuals should be supplied in English/Hindi language along with machine diagrams.
10.2	Other accompanying documents	NA
11. Notes		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of manufacturer and supplier should be provided.
11.2	Recommendations or warnings	Any warning sign should be displayed adequately.

9. MULTIPARA MONITOR

- 1) Patient monitor for monitoring physiological parameters of patients, to display physiologic waves, parameters, and trends.
- 2) Patient monitor also provides for the retrospective review of alarms, and parameters from its database.
- 3) Monitor should be modular with integrated monitoring of ECG, SpO2, NIBP, Resp, dual temp.
- 4) Patient data and measurement records shall remain stored in the Patient Monitor when electric power is off or battery depleted. The monitor shall have minimum 120 hours graphic and tabular trend, 48 hours full disclosure, 1000 events.
- 5) Main Unit shall provide 2hrs power backup with rechargeable Lithium-ion battery with touchscreen display of at least 12 inch or more, with minimum screen resolution: 1280 X 800 pixels, minimum 10-waveform channels, 170 degree viewing angle, support multi-touch operation.
- 6) Dynamic Zoom: the number of waves and wave sizes shall be dynamically adjusted depending on measurement parameters selected on board.
- 7) Monitor shall be able to connect to minimum 2 USB devices such as wireless Keyboard/mouse, barcode scanner, USB disk and other Peripheral Devices.
- 8) User shall be able to freeze the waveforms and review the frozen waveforms for at least 2 minutes prior.
- 9) Monitor shall provide comprehensive online guide/user manual to help quick applications for non-routine clinical measurements
- 10) Long trend: the mini trend pane can be opened by swiping on the mini trend pane and the storage duration is from 1 to 24 hours. All abnormal readings will be highlighted on the trend waveform. The Arrhythmia alarm and parameters alarms will be summarized.
- 11) It shall provide manual event function for the user to quickly capture a snapshot including all current numeric and waveforms and save as event record for later review.
- 12) Technical alarm list shall be provided, and detailed help messages or pictures shall be available to help identify the problem quickly.
- 13) User shall be able to latch the alarms to be notified without any missing.
- 14) Automatic alarm limits for all parameters shall be provided to admit patient quickly and start monitoring immediately.
- 15) The Monitor shall be able to analysis multiple parameters to reduce the false alarms for heart rate, pulse rate, arrhythmia events.
- 16) 24 Hours of ECG Summary: it supports the summary for 24 hours of HR, Arrhythmia, ST and QT, and the results can be printed by network printer.
- 17) NIBP Analysis: it supports the summary for 24 hours of NIBP measurement and the results can be printed by network printer.
- 18) Monitor shall provide 5 kinds of calculation tools including drug, hemodynamic, ventilation, oxygenation, and renal calculations
- 19) All patient monitor data and alarms shall be further transmitted from the monitor through network to central station or direct HL7 output for Electronic Medical Record system.
- 20) Patient monitor shall have data transfer capability for transferring patient demographic, tabular and graphic trends, alarm setting, and events to other monitors – Bed to Bed View
- 21) Monitor must be HL7 compliant and able to provide direct HL7 output for connecting it further to any EMR.

ECG:

- 22) Should display of 5 lead ECG as standard feature.

- 23) Should have 12 lead ECG waveform display derived from 5/6 lead ECG.
- 24) ECG - Multi-lead ECG analysis, Automatic pacemaker detection, at least 25 arrhythmia classifications including all life threatening arrhythmias such as VTACH , ASYST, VFIB as standard feature, QT analysis must be available.
- 25) Should have inbuilt and automatic facility to eliminate false arrhythmia alarms. The Monitor shall be able to analysis multiple parameters to reduce the false alarms for heart rate, pulse rate, arrhythmias events.
- 26) Arrhythmia intended use: arrhythmia analysis shall be able to use on adult, paediatric, and neonate.
- 27) Life-threatening arrhythmia alarms: User shall be able to selectively turn on and off each non- life-threatening alarms. User shall not be able to turn off life-threatening alarms.
- 28) Arrhythmia thresholds setup: User shall be able to configure the thresholds such as asystole delay time and PVC related alarms including V-brady rate and PVCs, V-tach rate PVCs, etc.
- 29) ST Graphic: ST abnormal changes shall be shown in a Histogram with different colors compared with baseline segments, with separate limb and chest diagrams which indicate their physiological layout and direction.
- 30) Dual ST alarm: The monitor shall provide a ST dual alarm when ST segments alarms in two or more contiguous leads at same time.
- 31) QT analysis intended use: the QT analysis shall be able to use for adult, pediatric, and neonate.
- 32) QT/QTc: QT/QTc interval monitoring provides the measured QT interval, the calculated heart rate corrected QTc value and a Δ QTC value.
- 33) QTc formulas: the monitor shall provide Bazett, Fridericia, Framingham, Hodges formulas to choose according to the clinical needs.

Respiratory Rate (RR):

- 34) RR measurement range: 0 to 200 rpm
- 35) RR accuracy: 0 to 120 rpm: ± 1 rpm and 121 to 200 rpm: ± 2 rpm
- 36) Auto lead identification: the system shall be able to identify the respiratory rate calculate lead I or II automatically.

SpO2:

- 37) PR measurement range: 20 to 300 bpm.
- 38) Should have facility for changing pitch tone with changing saturation.
- 39) Perfusion Index (PI): the SpO2 monitoring shall provide perfusion index.
- 40) PR value display in HR numeric: the system shall be able to display PR value in HR numeric zoom, when the ECG doesn't measure.
- 41) Temperature
- 42) It shall provide temperature difference measurement and alarm.
- 43) Temp label: It should support to choose temperature measurement position label.

NIBP:

- 44) Should display Systolic, diastolic, mean pressure
- 45) Should have manual/ stat mode or automatic mode
- 46) Should have adjustable time intervals from 2 – 240 minutes and adjustable alarm limits.
- 47) Should be suitable for adult, paediatric & neonate use.
- 48) Venipuncture assist function.
- 49) NIBP Should measure and display PR rate.

Scope of supply must include –

- 50) Main Unit
- 51) Monitor Mount -1 no.
- 52) 5 Lead ECG Cable- 1 no.
- 53) SpO2 sensor for Adult & Ped- 1 each
- 54) NIBP cuffs for Adult, Ped and Neonatal- 1 each
- 55) Skin & Rectal Temperature- 1 each
- 56) Instruction Manual- 1no.
- 57) Should comply with USFDA/CE/BIS Standards and CDSCO/ SLA approval
- 58) Warranty: 1 Year.

10. SYRINGE PUMP

- 1) The pump should have closed-loop technology.
- 2) The flow rate range should be 0.1ml/hr to 2000ml/h with an accuracy of $\pm 1\%$ on the mechanism and $\pm 2\%$ flow rate accuracy.
- 3) Should work on the syringe capacities 5, 10, 20,50 CC.
- 4) It should be an open system to allow provision for configuring new syringes.
- 5) Infusion modes to be present ml/hr mode, Dose mode, Volume/time, and Multi-step.
- 6) The pump should be ideal for more than 5 steps dosing using multi-step mode.
- 7) Should have the following Dose rate mode units: ng/h, ng/kg/min, ng/kg/h, microg/min, microg/h, microg/kg/min, microg/kg/h, mg/min, mg/h, mg/24h,mg/kg/min, mg/kg/h, mg/kg/24h, mg/m2/h, mg/m2/24h, g/h, g/kg/min, g/kg/h, g/kg/24h,mmol/h, mmol/kg/h, mmol/kg/24h, mU/min, mU/kg/min, mU/kg/h, U/min, U/h, U/kg/min, U/kg/h, kcal/h, kcal/24h, kcal/kg/h, mEq/min, mEq/h, mEq/kg/min, mEq/kg/h.
- 8) Should have a drug list of a minimum of 200 drugs
- 9) Should have direct bolus option with flow rate 50ml/hr to 2200 ml/hr with an increment of 50ml/hr along with programmable bolus with settable dose or volume/time.
- 10) Should have settable KVO option ranging from 0.1 to 5ml/hr with feature to keep it off.
- 11) Priming feature should be available.
- 12) There should be an option to decrease / increase the brightness of the screen.
- 13) There should be an option to decrease / increase the alarm sound level.
- 14) There should be an option to lock the pump keypad.
- 15) The device should be durable and should have aluminium plunger tube and head.
- 16) The fast start option is mandatory with a pause option programmable from 5 min to 24 hrs.
- 17) Variable and 5 pre-set levels pressure mode is a must. Range from 100 to 900 mmHg. Can be enabled and adjusted with the facility to display real-time inline pressure using pressure icon.
- 18) The anti-bolus system is required, and the maximum unintended bolus volume can be less than 0.5 mL.
- 19) On Screen display of the following parameters Volume/dose infused, pressure, flow rate, battery status, bolus delivered must be present.
- 20) Should save last seven-day data log events in real-time and should have a history of volume/dose infused, pressure and flow rate.
- 21) The device should have Syringe barrel clasp check, plunger head detection, anti- siphon check, and flange detection.
- 22) The device should have the following alarm occlusion pressure alarm, end of infusion pre-alarm, end of infusion alarm, syringe near empty, syringe empty, keypad manual locking or key padlock, start infusion at pause end Disengaged driving mechanism alarm, plunger disengaged alarm, low battery pre- alarm, discharged battery alarm, unconfirmed

- programming, technical malfunction alarm, watch dog check, communication connection failure, plug-head disengagement, auto- lock/lock code (on Keypad), preventive maintenance.
- 23) Should have at least 3.5 inch color LCD display of size equal to or more than 65 × 50 mm
 - 24) Should have a provision to clamp the device on the pole.
 - 25) Should have a Li-ion Smart battery, Battery Life (when fully charged): > 13h at 5mL/h.
 - 26) The device should have inbuilt WiFi module.
 - 27) The device shall come with a software android Application, the application can be installed in any android tablet.
 - 28) The application shall have a provision to remotely monitor the pump infusion. The dashboard shall display the status of all the infusing devices.
 - 29) The application shall alert the user during critical conditions.
 - 30) The application shall have a user configurable drug library, which consists of color coded drug categories and dosage / rate limits. When the entered rate / dosage is not within the limits, the application shall alert the user.
 - 31) The application shall automatically generate reports which show the infusion records of patients and across multiple patients.
 - 32) Should comply with USFDA/CE/BIS/CDSCO Standards
 - 33) Warranty: 1 Year.

11. LARYNGOSCOPE

LARYNGOSCOPE		
1. USE		
1.1	Clinical purpose	To view the vocal cords and glottis and to facilitate tracheal intubation.
1.2	Used by clinical department/ ward	PICU/NICU, OT, EMR, ICU/HDU
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	MMakintosh Fiber optic Laryngoscope - preferably should be reusable using the latest LED technology. 1. The main body of the handle should incorporate an excellent grip & should feel even wearing a glove. 2. The light source should light when the blade is placed into the operating position. 3. The unit should allow the blade to be inserted easily & should provide a positive locking mechanism when moved into the closed position. 4. Should have handle with universal adapter for interchangeable blades. 5. The laryngoscope should be supplied in leather/hard case preferably high impact plastic with internal soft cushion material for easy portability and protection. 6. The blades should be re-usable and autoclavable preferably made of S/Steel (MS-304) of high quality. 7. Adult and Paediatric blades with all size 8. Separate handle for Adult and Paediatric
2.2	Settings	NA
2.3	User's interface	Manual

2.4	Software and/or standard of communication (wherever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	Light weight
3.4	Noise (in dBA), heat dissipation	NA
3.5	Mobility, portability	Portable
4. ENERGY SOURCE		
4.1	Power Requirements	NA
4.2	Battery operated	Yes
4.3	Protection	NA
4.4	Power consumption	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional) Spare parts (main ones) Consumables / reagents (open, closed system)	Batteries, blades of various neonatal sizes Handle 5 LED should be given as spare
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust)	Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity of upto 90% in ideal circumstances.
6.2	User's care, Cleaning, Disinfection & Sterility issues	Should be autoclavable
7. STANDARDS AND SAFETY		
7.1	Certificates	1. Should comply with USFDA/CE/BIS 2. CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA

8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians)	NA
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	01 years
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams.
10.2	Other accompanying documents	NA
11. NOTES		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/ landline number)	Contact details of manufacturer and supplier should be provided..
11.2	Recommendation or warnings	Any recommendations for best use and supplementary warning for safety should be declared

12. THERMOMETER- INFRARED TYPE

Digit all infrared Thermometer		
1. USE		
1.1	Clinical purpose	Infrared(IR) thermometers allows to measure temperature quickly, at a distance, and without touching the object.
1.2	Used by clinical department/ward	All Departments
TECHNICAL		
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	1. It should be non-contact type Infrared digital thermometer. 2. It should measure and display temperature in both units-degree Celsius and degree Fahrenheit. 3. Measuring range: 32degC(89.6degF) or lower to 43 deg C (109.4 deg F) or higher. 4. Accuracy of measurement: 0.2degC/Fahrenheit or better. 5. Measuring distance should be at least 5cm. 7. It Should have LCD display. 8. It should have auto shut down feature when not in use, audio/visual alarm facility.
2.2	Settings	NA
2.3	User's interface	Digital display
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions(metric)	NA
3.2	Weight (lbs, kg)	Lightweight NA
3.3	Noise(indBA), heat dissipation	Portable

3.4	Mobility, portability	NA
4. ENERGYSOURCE		
4.1	Power Requirements	N/A
4.2	Battery operated Protection	Yes
4.3	Protection	N/A
4.4	Power consumption	N/A
5. ACCESSORIES,SPAREPARTS,CONSUMABLES		
5.1	Accessories (mandatory, standard, optional) Spare parts (main ones)	N/A
6. ENVIRONMENTALANDDEPARTMENTALCONSIDERATONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust...)	Capableofoperatingcontinuouslyinambienttemperatureof-10to60degCandrelativehumidityofupto90%inideal circumstances.
6.2	User's care, Cleaning, is infection& Sterility issues	Easy to clean
7. STANDARDSANDSAFETY		
7.1	Certificates	NA
8. TRAININGANDINSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA
8.2	Requirements for sign- off	NA
8.3	Training of staff (medical, paramedical, technicians)	NA
9. WARRANTYANDMAINTENANCE		
9.1	Warranty	1 Year
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: User, technical and maintenance manuals should be supplied in English/Hindi language along with machine diagrams
10.2	Other accompanying documents	NA
11. NOTES		
11.1	Service Support Contact details (Hierchy Wise; including a tollfree/ landline number)	Contact details of manufacturer and supplier should be provided..
11.2	Recommendations or warnings	Any recommendations for best use should be declared

13. AMBU BAG ADULT

AMBU BAG		
1. USE		
1.1	Clinical purpose	An Ambu bag, is a handheld tool used to provide ventilation (positive pressure) who is not breathing or who is breathing inadequately. It consists of a self-inflating bag, one-way valve, mask, and an oxygen reservoir.
1.2	Used by clinical department/Ward	Emergency department, Operation Theatre, Ambulance, Resuscitation kit.
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	1. Bag should be made up of silicone, latex free, double layered rubber and should retain sensitivity, resistant to rough use. 2. Inlet end of the bag should have separate port for oxygen supplement. 3. Outer port should be such that re-breathing valve or non-return valve can be attached. 4. Should be supplied with oxygen reservoir bag and should deliver tidal volume of 250/500/750 & 1000 ml. 5. Should be autoclavable. 6. Should be provided with a carry case.
2.2	User's interface	Manual
2.3	Software and/ or standard of communication (wherever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Noise (in dBA)	NA
3.4	Heat dissipation	NA
3.5	Mobility, portability	NA
4. ENERGY SOURCE		
4.1	Power Requirements	NA
4.2	Battery operated	NA
4.3	Protection	NA
4.4	Power consumption	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard and optional); spare parts (main ones) and Consumables/ Reagents (Open/Closed System)	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust...)	Capable of operating continuously in ambient temperature of - 10 to 60 deg C and relative humidity of upto 90% in ideal circumstances.

6.2	User's care, Cleaning, Disinfection & Sterility issues	Autoclavable face mask
7. STANDARDS AND SAFETY		
7.1	Certifications (Pre-Market, Sanitary, Performance and Safety Standards (Specific to the device type); Local and/or International	1. Should comply with USFDA/CE/BIS 2. CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA
8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians) OPTIONAL (Depending upon scope of work order)	Training of users in operation and basic maintenance shall be provided.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	01 year
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	Should provide 2 sets (hard copy and soft copy) of: • User, technical and maintenance manuals should be supplied in English/Hindi/ Regional language along with machine diagrams.
10.2	Other accompanying documents	NA
11. NOTES		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of manufacturer and supplier should be provided.
11.2	Recommendations or warnings	NA

14. ELECTRONIC WEIGHING SCALE ADULT

WEIGHING SCALE-ADULT		
1. USE		
1.1	Clinical purpose	Weighing scale is used to measure body mass.
1.2	Used by clinical department / ward	OPD
2. TECHNICAL CHARACTERISTICS		

2.1	Technical characteristics (specific to this type of device)	- Should be made of sturdy mechanical structure to support/withstand heavy workload in public health centre. - Platform size 350 x 350 mm (Tolerance +/- 10%) - Measuring capacity should be at least 150 kg with accuracy up to 100 gms. - The display should be LCD/LED with four digits. The size of display should be minimum height 24 mm for clear visibility. - The scale should operate on electricity as well as on inbuilt re-chargeable batteries. - The reading should get locked automatically at stable weight and there should be an indication for the same. - The scale should have readings in SI system (Kgs and Gms). - The scale should have auto off feature when not in use. - It should be able to record weight in less than 05 seconds. - Built in rechargeable battery.
2.2	User's interface	LCD/ LED display.
2.3	Software and/or standard of communication (Wherever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	NA
3.2	Weight (lbs, kg)	NA
3.3	Configuration	N.A.
3.4	Noise (in dBA)	N.A.
3.5	Heat dissipation	NA
3.6	Mobility, portability	Portable
4. ENERGY SOURCE (Electricity, UPS, Solar, Gas, Water, CO2)		
4.1	Power Requirements	220 V AC +/- 10%, 50 Hz
4.2	Battery operated	Rechargeable battery
4.3	Protection	NA
4.4	Power consumption	NA
4.5	Other energy supplies	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional), Spare parts (main ones), Consumables / reagents (open, closed system)	NA
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS		
6.1	Atmosphere / Ambiance (air conditioning, humidity, dust ...)	NA
6.2	User's care, Cleaning, Disinfection & Sterility issues	Easy to clean

7. STANDARDS AND SAFETY		
7.1	Certificates (pre-market, sanitary,...); Performance and safety standards (specific to the device type); Local and/or international	1. Should comply with USFDA/CE/BIS 2. CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, Tolerance	NA
8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians)	NA
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	• 1 year • Preventive Maintenance visits at least once in each quarter
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	NA
10.2	Other accompanying documents	NA
11. NOTES		
11.1	Service Support Contact details (Hierarchy Wise; including a toll free/landline number)	Contact details of the manufacturer should be provided.
11.2	Recommendations or warnings	Any warning sign should be displayed adequately.

15. WHEELCHAIR-FOLDABLE

- Over all dimensions:950Lx490Wx950Hmm.
- Back support:440Wx420Hmm.
- Seat Size:440Wx450Hmm.
- Mild Steel tubular frame works made of 22.22mmx1.2mm(18G)round MS tube mounted on two front castor wheel having 200mmdiameterandouterwithsolidrubber.
- Frame is provided with Mild Steel(MS)Epoxy Powder Coated.
- Crossbarismadeof22.22mmx1.2mm(18G) SS round tube.
- Twosolidrubbertyrewheelsof22.8"withbrakesandprovidedMAGwheeltype.
- Seat and back is made of Rexine material.
- TwoAdjustablealuminiumdiecastedfootrestwithupdownandswiveltypeadjustment.
- Provided with fixed type PU moulded Armrest for better arm support.
- Back is provided with pocket for keeping document sand tools.
- Handles provided with moulded PVC gript o push the wheel chair.
- Patient bearing and Weighing bearing capacity 150Kgs.
- Hand brakes provided to lock then wheel chair at desired location.
- Provisionofextendedbasewithmouldedplasticgriptoliftthewheelchairfronttoovercome obstructions while manoeuvring.
- Should conform to ISO quality standards.
- Warranty: 1 Year.

16. CRASH CART

1. The Frame work should be made of S.S. Tubes
2. There should be Two light weight polystyrene boxes each with three drawers.
3. The Upper drawer should be provided with medicine container of different sizes
4. The Provision to hold oxygen cylinder must be made of M.S.
5. It should be Provided with Sliding Writing board and which can be used as CPR board for cardiac patient.
6. The Six Number colour hand out small bins should be at eye level
7. There should be Total three S.S. Shelves with raise edges to carry Medical Equipment
8. It should be Provided with S.S. I.V. Rod & Corner Buffers.
9. The Cart should be mounted on 125 mm (5") Diagonal locking castors.
10. The Overall Size (Approx.) should be 960L x 480W x 1545H mm.
11. Should conform to ISO quality standards.
12. Warranty: 1 Year.

17. DRESSING TROLLEY

1. The Frame work should be made of S.S. tubes, 18G
2. There should be Two S.S. Shelves with S.S. railing on all four sides
3. The trolley should be fitted with S.S. bucket and S.S bowl.
4. The trolley should be mounted on 100 mm (4") diagonal locking Castors
5. It should be Supplied in Knockdown construction.
6. The trolley should be Finished with S.S. Frame, S.S. shelves with S.S. Basin & Bucket.
7. The Overall Size (Approx.)should be 30"L x 18"W x 32"H
8. Thickness should be atleast 1 mm.
9. Should conform to ISO quality standards.
10. Warranty: 1 Year

18. DRUG TROLLEY/MEDICINE CART

1. Framework 18G made of MS tube mounted on 100 mm (4") Diagonal Locking Castors
2. Two shelves with three side railing on top shelf
3. Two M.S. Drawer under the each shelf
4. Finish: Pretreated & Epoxy Powder Coated
5. Overall Size (Approx.): 760L x 460W x 950H mm.
6. Top Size (Approx.): 710L x 460W mm
7. Thickness should be atleast 1 mm.
11. Should conform to ISO quality standards.
12. Warranty: 1 Year

19. GLUCOMETER

GLUCOMETER		
1. USE		
1.1	Clinical purpose	It intended to be used together for testing, either at the point-of-care or in self-testing by a layperson, for the quantitative measurement of glucose and/or ketones in a whole blood clinical specimen.
1.2	Clinical department/ward	All
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics	1. Should be open system having compatibility with any make of available glucose strips in open market. 2. Should have LCD display screen and auto shut off feature when not in use. 3. Display of the sugar reading should be in mg/dl. 4. Should have reading range/linearity from 20 to 700 mg/dl. 5. Should have a maximum reading time of less than 10 seconds 6. Should be supplied with autoinjector pen and disposable lancets. 7. Should have the feature of automatic code detection of glucose strips. 8. Should have a minimum memory of 100 tests
2.2	User's interface	LCD
2.3	Software and/or standard of communication	Inbuilt
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	Handheld Device
3.2	Weight (lbs, kg)	Handheld Device
3.3	Noise (in dBA)	NA
3.4	Heat dissipation	NA
3.5	Mobility, portability	Handheld Device
4. ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2)		
4.1	Power Requirements	Battery powered
4.2	Battery operated	3-volt lithium coin cell battery or 2 x (AAA) Alkaline Batteries
4.3	Protection	NA
4.4	Power consumption	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories (mandatory, standard, optional) Spare parts (main ones) Consumables/reagents (open, closed system)	Glucose strips (able to use capillary blood samples) with availability in local market Open vials stability for 3 months 1 Box – 50 Strip to be supplied along with machine.
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust)	Capable of operating continuously in ambient temperature of -10 to 60 deg C and relative humidity upto 90%.

6.2	User's care, Cleaning, Disinfection & Sterility issues	To be specified by manufacturer.
7. STANDARDS AND SAFETY		
7.1	Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international	1. Should comply with USFDA/CE/BIS 2. CDSCO / SLA approval
8. TRAINING AND INSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, Tolerance	NA
8.2	Requirements for sign-off	NA
8.3	Training of staff (medical, paramedical, technicians)	User training should be provided.
9. WARRANTY AND MAINTENANCE		
9.1	Warranty	01 Years
10. DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	User, technical and maintenance manuals should be supplied along with machine diagrams
10.2	Other accompanying Documents	NA
11. NOTES		
11.1	Other information	Contact details of manufacturer and supplier should be provided.
11.2	Recommendations or Warnings	NA

20. STETHOSCOPE

Stethoscope		
1.USE		
1.1	Clinical purpose	Listening to sounds from the heart, lungs, and/or gastrointestinal tract.
1.2	Used by clinical department/ward	All
2. TECHNICAL CHARACTERISTICS		
2.1	Technical characteristics (specific to this type of device)	1. Should have single lumen binaural. 2. Latex free Polyvinyl chloride (PVC) stethoscope tubing, soft and should not harden/crack. 3. Tube should be impervious to outside noises. 4. Ear pieces (02) should be with soft sealing ear tips and easy to stay fixed in ears. 5. Ear piece material: Soft PVC/Silicone preferably. 6. Should have good quality and highly sensitive fixed/floating diaphragm. 7. Dual head: Cup/ bell for low frequency sounds, sensitive membrane for skin contact.
2.2	User's interface	Manual
2.3	Software and/or standard of communication (where ever required)	NA
3. PHYSICAL CHARACTERISTICS		
3.1	Dimensions (metric)	Tube length—55cm minimum
3.2	Weight (lbs, kg)	NA
3.3	Noise (indBA)	NA
3.4	heat dissipation	NA
3.5	Mobility, portability	Portable
4. ENERGY SOURCE		
4.1	Power Requirements	NA
4.2	Battery operated	NA
4.3	Protection	NA
4.4	Power consumption	NA
4.5	Other energy supplies	NA
5. ACCESSORIES, SPARE PARTS, CONSUMABLES		
5.1	Accessories Spares	1x spare set of ear piece, 1x spare diaphragm.
	Consumables/reagents (open, closed system)	
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATIONS		
6.1	Atmosphere/Ambiance (air conditioning, humidity, dust ...)	NA
6.2	User's care, Cleaning, Disinfection & Sterility Issues	NA
7. STANDARDS AND SAFETY		
7.1	Certifications	NA

8.TRAININGANDINSTALLATION		
8.1	Pre-installation requirements: nature, values, quality, tolerance	NA
8.2	Requirements for sign-off	NA
8.3	Training of staff(medical, paramedical, technicians)	NA
9.WARRANTYANDMAINTENANCE		
9.1	Warranty	1year
10.DOCUMENTATION		
10.1	Operating manuals, service manuals, other manuals	NA
10.2	Other accompanying documents	NA
10.3	Recommendations for maintenance	NA
11.NOTES		
11.1	Service Support Contact details (Hierchy Wise; including toll free /landline number)	NA
11.2	Recommendations or warnings	NA

21. Bicarbonate Mixer

- 1) Should have conical bottom type vessel of capacity atleast 100litres, made of Lipde (linear low-density polyethylene) material.
- 2) Supporting stand should be made of Stainless steel – SS 304 grade.
- 3) Should have stainless steel rod grit, non wetted pedestal stirrer.
- 4) Should have Marine style 3 blade propeller.
- 5) Blade should be stainless steel – SS 316 L grade.
- 6) Should have 0.5 Hp, single phase electric motor, direct drive, speed 1440 rpm, 0.37kw, 230V AC. 50 Hz.
- 7) Motor Assembly shall be quickly removable for easy cleaning and autoclaving.
- 8) RO water inlet should be 1/4" Cpvc with ball valve @ 105 ltrs.
- 9) RO water outlet should be 1/4" Cpvc with ball valve @ 100 ltrs.
- 10) Solute should be 1/4" Cpvc with ball valve @ 4 ltrs.
- 11) Drain should be 1/4" Cpvc with ball valve @ 0 ltrs.
- 12) Should supply with necessary spares and accessories.
- 13) Should operate on mains 220-240Vac, 50 Hz single phase.
- 14) The Standard should be CE / USFDA /BIS/CDSCO/ISO certified.
- 15) One Year Warranty

22. Scrub Station for Dialysis Unit

- 1) Providing and fixing of stainless steel (SS) sink as per the dimension given, fabricated using 304 grade stainless steel sheet of 16 gauge thickness.
- 2) The sink shall have an open top size of 1.50 m x 0.60 m, a bottom size of 1.50 m x 0.45 m, and a height of 0.45 m.
- 3) The top edge shall be folded with dimensions 0.025 m x 0.015 m x 0.025 m.
- 4) The top back of the sink shall be box-shaped on three sides.
- 5) All frame works shall be constructed using 38 mm diameter (or nearest available) 16 SWG round hollow stainless steel sections, with adequate horizontal supports for stability.
- 6) The sunken tabletop and sink bowl shall be made of 16 gauge, 304-grade SS with satin finish.
- 7) The tabletop shall have all edges double beaded on three sides, free from burrs or sharp edges, and reinforced underneath using 32 mm x 32 mm x 3 mm thick stainless steel angle framework.
- 8) Underneath support shall be provided using 18 mm x 75 mm x 18 mm SS channel sections.
- 9) Each leg shall be fitted with white nylon bullet feet.
- 10) All edges and corners shall be fully closed and rounded to eliminate sharp areas and prevent contamination.
- 11) The sink shall be buffed and polished to a smooth finish and provided with necessary arrangements for fixing plumbing fittings.
- 12) Should be supplied with 2 taps for RO water and 2 taps for raw water.
- 13) The rate shall be inclusive of cost and conveyance of all materials, labour, tools, fabrication, installation, and all incidental charges required to complete the work in all respects, as per the technical specifications.
- 14) Installation shall be done at free of cost. The inlet water points and drain point shall be provided by the bidder as part of infrastructure works.

DETAIL OF INFRASTRUCTURE WORK

1. CH GHUMARWIN, BILASPUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
 - Doors
 - Brickwork
2. Doors
 - Aluminium doors and partition considered.
3. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
4. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Plastering considered for walls and ceiling
5. Necessary plumbing and sanitary fittings as per drawing.
6. Necessary signage boards provided
7. RO plant room is considered outside the building due to space limitation. Various works considered are: earth work excavation, PCC, RCC, form work, masonry, painting, steel truss roof.

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	1.00	Each
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	1.20	Cum
3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	27.20	Sqm
	EARTH WORK EXCAVATION		
4	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	2.90	Cum
	PLAIN CEMENT CONCRETE		
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	3.50	Cum
	RCC WORK		
6	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.60	Cum

Sl.No	DESCRIPTION	QTY	UNIT
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	60.00	Kg
8	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	5.60	Sqm
	MASONRY WORK		
9	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 : 6 coarse sand)	12.90	Cum
	PLASTERING		
10	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	195.70	Sqm
11	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	22.40	Sqm
	DOORS & WINDOWS		
12	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	4.00	Sqm
13	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	2.00	each
25	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.00	Each
14	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	2.00	each
	TILE WORK		
13	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	27.20	Sqm
14	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	43.80	Sqm
	STEEL WORKS		
15	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	156.60	KG
16	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/ self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape	38.70	sqm

Sl.No	DESCRIPTION	QTY	UNIT
	where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.		
	PAINTING		
17	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	110	Sqm
18	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	237.60	Sqm
19	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	38.70	Sqm
20	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	19.90	Sqm
21	Melamine polishing on wood work (one or more coat)	9.60	Sqm
	ALUMINIUM WORKS		
22	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	33.10	KG
23	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	18.20	KG
24	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	6.30	Sqm
26	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	1.50	Sqm
27	Providing and fixing aluminium handles, 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 : 75mm	4.00	Each
	PLUMBING & SANITARY FITTINGS		
28	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps		
29	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
30	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	1.00	Each
31	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia	1.00	Each
32	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
33	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
35	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
36	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	15.00	M
37	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
38	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kg/cm ² - External work- Exposed on wall	5.00	M
39	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
40	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
41	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.		
42	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
43	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	3.00	Each
44	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor	4.00	Point

SN	DESCRIPTION	QTY	UNIT
	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. 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.Group B		
1.02	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. 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.Group C	5.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	45.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	50.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	8.00	Each
4.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	1.00	Each
4.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	1.00	Each
4.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making	1.00	Each

SN	DESCRIPTION	QTY	UNIT
	good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface		
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	11.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	11.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	9.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	9.00	Each
5.05	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A SP switch with indicator	1.00	Each
5.06	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	1.00	Each
6.03	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.Single pole	20.00	Each
6.04	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.05	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.06	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each

SN	DESCRIPTION	QTY	UNIT
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	5.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	25.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	25.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	6.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.03	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

2. CH BHARMOUR, CHAMBA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
 - Windows
2. Masonry works: Using bricks of class designation 7.5 and Half brick masonry for wall as per drawing
3. 12 mm thick patch plastering in CM 1:4 for walls.
4. Doors
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
5. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
6. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
7. Necessary plumbing and sanitary fittings as per estimate.
8. Patch works considered for dialysis false ceiling
9. Necessary signage boards provided

Civil Estimate

SN	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	7.20	Sqm
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	1.00	Each
	RCC WORK		
3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.20	Cum
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	16.00	Kg
5	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	2.50	Sqm
	MASONRY WORK		
6	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 : 6 coarse sand)	0.30	Cum
7	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)	1.80	Cum
	PLASTERING		
8	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	41.60	Sqm

SN	DESCRIPTION	QTY	UNIT
	DOORS & WINDOWS		
9	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	8.00	Each
10	Providing and fixing aluminium handles, 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:125 mm	8.00	Each
11	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	4.00	Each
12	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	3.00	Each
13	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	2.00	Each
14	Providing and fixing to existing door frames24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).	1.70	sqm
15	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-chargeExtruded section profile size 48x40 m	5.00	M
	TILE WORK		
16	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	15.00	Sqm
17	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	9.40	Sqm
18	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume	2.20	Sqm

SN	DESCRIPTION	QTY	UNIT
	Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.		
19	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	10.00	Sqm
20	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	12.80	Sqm
	PAINTING		
21	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	25.30	Sqm
22	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	107.80	Sqm
23	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	5.40	Sqm
24	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	66.3	sqm
25	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	10.00	Sqm
26	Melamine polishing on wood work (one or more coat)	8.20	Sqm
	ALUMINIUM WORKS		
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	70.90	KG
28	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators	27.50	KG

SN	DESCRIPTION	QTY	UNIT
	including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)		
29	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	0.40	Sqm
30	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	20.60	Sqm
31	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	3.40	Sqm
32	Providing and fixing aluminium handles, 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 : 100mm	3.00	Each
	PLUMBING & SANITARY FITTINGS		
33	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
34	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
35	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
36	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
37	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
38	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
39	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work,	15.00	M

SN	DESCRIPTION	QTY	UNIT
	including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes		
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	10.00	M
41	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
42	Flexible pipe 32 mm dia	1.00	Each
43	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
44	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
45	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
47	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
	SIGNAGES		
49	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
50	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given - 1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame., 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.

3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	1.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.55	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	60.00	Metre

SN	DESCRIPTION	QTY	UNIT
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required 2X6 sq.mm + 1X6 sq.mm earth wire	14.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	3.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	7.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	11.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	11.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	7.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator) 16 way, Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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. Single pole	24.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each

SN	DESCRIPTION	QTY	UNIT
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	50.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	9.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

3. CH KIHAR, CHAMBA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick work
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 for brick wall as per drawing
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Steel works: considered for wash slab frame
5. Doors
 - Necessary Internal door frame in Sal wood or similar wood with flush door shutters
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
6. Windows and Ventilators
 - Necessary Aluminums windows are proposed as per drawing
 - 4mm thick float glass panes are considered
 - Window grills are made up of welded MS sections
7. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
8. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
9. Necessary plumbing and sanitary fittings as per estimate.
10. Necessary signage boards provided

Civil Estimate

S.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.10	Cum
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	4.10	Sqm
	MASONRY WORK		
3	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)	3.90	Cum
	PLASTERING		
4	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	83.50	Sqm
	DOORS & WINDOWS		
5	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	22.00	Each
6	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparen tor dyed to required colour or shade, with necessary	22.00	Each

S.No	DESCRIPTION	QTY	UNIT
	screws etc. complete:125 mm		
7	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	10.00	Each
8	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	10.00	Each
9	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	2.00	Each
10	Providing and fixing to existing door frames24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).	1.70	sqm
11	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-chargeExtruded section profile size 48x40 m	5.00	M
	TILE WORK		
12	Providing and fixing 18 mm thick gang saw cut, 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), joint treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area of slab over 0.50 sqm	1.00	Sqm
13	Cleaning wall and floor tiles using acid as per direction of Engineer-in - charge	143.70	Sqm
14	Providing and fixing Ist quality ceramic glazed wall tiles conforming	11.00	Sqm

S.No	DESCRIPTION	QTY	UNIT
	to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
15	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	2.90	Sqm
	PAINTING		
16	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	83.50	Sqm
17	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	133.40	Sqm
18	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	1.40	Sqm
19	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	49.9	sqm
20	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	15.10	Sqm
	STEEL WORKS		
21	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	20.10	KG
	ALUMINIUM WORKS		
22	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	128.40	KG
23	Providing and fixing aluminium work for doors, windows, ventilators	66.40	KG

S.No	DESCRIPTION	QTY	UNIT
	and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)		
24	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	0.40	Sqm
25	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	52.60	Sqm
26	Providing and fixing glazing in door, window, ventilator shutters and partitions etc.with EPDM rubber /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): toughened glass of 6 mm thickness.	8.10	Sqm
27	Providing and fixing aluminium handles, 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 : 100mm	3.00	Each
	PLUMBING & SANITARY FITTINGS		
28	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
29	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass	1.00	Each

S.No	DESCRIPTION	QTY	UNIT
	pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps		
30	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
31	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	4.00	Each
32	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
33	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
35	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
36	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kg/cm ² - External work- Exposed on wall	5.00	M
37	Flexible pipe 32 mm dia	1.00	Each
38	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
39	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
40	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
41	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and	10.00	M

S.No	DESCRIPTION	QTY	UNIT
	making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes		
42	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
	SIGNAGES		
43	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
44	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.80	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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	5.00	Point

SN	DESCRIPTION	QTY	UNIT
	core cable etc. as required. 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.Group B		
1.02	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. 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.Group C	8.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	35.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	55.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X4 sq.mm + 1X4 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	1.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	3.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	4.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	6.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	6.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	5.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but	5.00	Each

SN	DESCRIPTION	QTY	UNIT
	excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet		
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	2.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	SUPPLY OF LT CABLES		
7.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	25.00	Meter
8.00	CABLE LAYING		
8.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	25.00	Metre
9.00	LT CABLE TERMINATION		
9.01	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. 2X 10sq. mm (28mm)	4.00	Each
10.00	Earthing		
10.01	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	40.00	Metre
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	11.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with all required accessories.	1.00	Each

SN	DESCRIPTION	QTY	UNIT
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.04	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

4. CH CHOWARI, CHAMBA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
2. Doors
 - Aluminium doors and partition considered.
3. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
4. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
5. Necessary plumbing and sanitary fittings as per drawing.
6. Necessary signage boards provided
7. RO plant room is considered outside the building due to space limitation. Various works considered are: earth work excavation, PCC, RCC, form work, masonry, painting, steel truss roof.

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	37.20	Sqm
	EARTH WORK EXCAVATION		
2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	2.90	Cum
	PLAIN CEMENT CONCRETE		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	3.50	Cum
	RCC WORK		
4	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.60	Cum
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	60.00	Kg
6	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	5.60	Sqm
	MASONRY WORK		
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	12.90	Cum

Sl.No	DESCRIPTION	QTY	UNIT
	floor V level in all shapes and sizes in :Cement mortar 1:4 (1 cement : 6 coarse sand)		
	PLASTERING		
8	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	135.20	Sqm
9	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	5.00	Sqm
	DOORS & WINDOWS		
10	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	8.00	Sqm
11	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	4.00	each
12	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	4.00	each
	TILE WORK		
11	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	16.50	Sqm
12	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	4.50	Sqm
	STEEL WORKS		
13	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	156.60	KG
14	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/ self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	38.70	sqm
	PAINTING		
15	Removing white or colour wash by scrapping and sand papering	19.7	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	and preparing the surface smooth including necessary repairs to scratches etc. complete		
16	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	149.80	Sqm
17	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	41.40	Sqm
18	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	19.80	Sqm
	ALUMINIUM WORKS		
19	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	96.70	KG
20	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	25.40	KG
21	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	17.60	Sqm
22	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	4.00	Each
23	Providing and fixing aluminium handles, 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 : 75mm	8.00	Each
	PLUMBING & SANITARY FITTINGS		
24	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
25	Providing and fixing PVC pipes, fittings including fixing the pipe	5.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall		
26	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	1.00	Each
27	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
28	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
29	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	15.00	M
33	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
34	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
35	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	2.00	Each
36	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
37	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.		
38	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
39	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	3.00	Each
40	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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	4.00	Point

SN	DESCRIPTION	QTY	UNIT
	and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required. 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.Group B		
1.02	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. 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.Group C	5.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	40.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	25.00	Metre
3.00	S/F PVC CONDUIT		
3.01	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.(ISI Make25 mm	10.00	Metre
3.02	Supply and fixing of 25 mm sized Medium Casing Caping white/Ivory colour with its all accessories	10.00	Meter
4.00	MODULAR TYPE BLANKING PLATE		
4.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
5.00	MODULAR BOXES AND PLATE		
5.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	2.00	Each
5.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	2.00	Each
5.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	4.00	Each
5.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	2.00	Each
5.05	Supply & Fixing the following types/ sizes of boxes suitable	1.00	Each

SN	DESCRIPTION	QTY	UNIT
	for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface		
5.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface	1.00	Each
6.00	MODULAR TYPE SWITCH/SOCKET		
6.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	8.00	Each
6.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	8.00	Each
6.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	4.00	Each
6.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	4.00	Each
6.05	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A SP switch with indicator	1.00	Each
6.06	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1.00	Each
7.00	DB AND ITS ACCESSORIES		
7.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
7.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
7.03	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. Triple pole	1.00	Each
7.04	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.Single pole	20.00	Each
7.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
7.06	Supplying and fixing DP sheet steel enclosure on surface/	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)		
8.00	EARTHING		
8.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
8.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	40.00	Metre
9.00	SUPPLY OF LT CABLES		
9.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
10.00	CABLE LAYING		
10.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
11.00	LT CABLE TERMINATION		
11.01	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. 2X 10sq. mm (28mm)	4.00	Each
12.00	LIGHT FITTINGS & FANS		
12.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	6.00	Each
12.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
12.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

5. CH TISSA, CHAMBA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Toilet fittings
 - Tile works
2. Masonry works: Using half brick masonry for constructing new walls
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Doors
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
5. Aluminium works
 - Necessary Aluminums partitions are proposed as per drawing
 - 12mm thick particle board are considered
 - 6mm toughened glass considered
6. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
7. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
8. Necessary plumbing and sanitary fittings as per estimate.
9. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling of flushing cistern of all types (C.I. / PVC/ Vitrous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	1.00	Each
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	24.20	Sqm
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.40	Cum
4	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	17.50	m
5	Dismantling of plumbing pipe lines of 15mm dia to 110mm dia pipes, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per the direction of engineer in-charge.	15.00	Metre
6	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	1.00	Each
7	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	RCC WORK		
8	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.20	Cum
9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	9.00	Kg
10	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	1.30	Sqm
	MASONRY WORK		
11	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)	9.20	Sqm
	PLASTERING		
12	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	20.10	Sqm
13	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	5.00	Sqm
	DOORS & WINDOWS		
14	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C. and bathroom door shutter).	3.40	sqm
15	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	10.00	M
16	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light	1.40	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.		
17	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	4.00	Each
18	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	10.00	Each
19	Providing and fixing aluminium handles, 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:125 mm	10.00	Each
20	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	5.00	Each
21	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	5.00	Each
	TILE WORK		
22	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	6.30	Sqm
23	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	1.60	Sqm
24	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	16.70	Sqm
25	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600	5.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	mm		
26	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	23.00	Sqm
	PAINTING		
27	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	127.5	Sqm
28	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	20.10	Sqm
29	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	165.50	Sqm
30	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	10.40	Sqm
31	Melamine polishing on wood work (one or more coat)	5.20	Sqm
32	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	11.70	Sqm
	ALUMINIUM WORKS		
33	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	66.70	KG
34	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	26.60	KG
35	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	36.80	Sqm
36	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	4.00	Each
	PLUMBING & SANITARY FITTINGS		

Sl.No	DESCRIPTION	QTY	UNIT
37	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lidProviding and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
38	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
39	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
40	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
41	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	4.00	Each
42	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia	1.00	Each
43	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
44	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	10.00	M
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	10.00	M
47	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all	10.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes		
48	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
49	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kg/cm ² - External work- Exposed on wall	5.00	M
50	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
51	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
52	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
53	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
54	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
55	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).

4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	6.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	45.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	modular plate & switch box excluding modular plate as required.		
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	2.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	2.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	4.00	Each
4.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	2.00	Each
4.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	3.00	Each
4.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface	1.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	9.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	9.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	6.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	6.00	Each
5.05	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A SP switch with indicator	1.00	Each
5.06	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	including earthing etc. as required. (But without MCB/RCCB/Isolator)12 way , Double door		
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	40.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	7.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with	1.00	Each

SN	DESCRIPTION	QTY	UNIT
	all required accessories.		
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.04	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

6. CH BHORANJ, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Paver block
2. Masonry works: Using bricks of class designation 7.5 for brick wall and half brick masonry considered
3. 12 mm thick patch plastering in CM 1:4 for walls
4. Doors
 - Necessary Internal door frame in Sal wood or similar wood with flush door shutters
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
5. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
6. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Plaster of paris putty 2mm considered
7. Necessary plumbing considered
8. Necessary signage boards provided

Civil Estimate

SN	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Taking out existing CC interlocking paverblocks from footpath/ central verge, including removal of rubbish etc, disposal of unserviceable material to the dumping ground for which payement shall be made separately, and stacking of serviceable materials within 50m lead as per direction of engineer in charge	107.90	Sqm
	RCC WORK		
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.60	Cum
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	48.00	Kg
4	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	8.30	Sqm
	MASONRY WORK		
5	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 : 6 coarse sand)	6.10	Cum
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)	4.00	Cum

SN	DESCRIPTION	QTY	UNIT
	PLASTERING		
7	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	143.50	Sqm
	DOORS & WINDOWS		
8	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	18.00	Each
9	Providing and fixing aluminium handles, 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:125 mm	18.00	Each
10	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	9.00	Each
11	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	7.00	Each
	TILE WORK		
12	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	89.10	Sqm
13	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	35.90	Sqm
	PAINTING		
14	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	143.50	Sqm
15	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	332.60	Sqm
16	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	97.1	sqm
17	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	36.10	Sqm
	ALUMINIUM WORKS		
18	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular	145.10	KG

SN	DESCRIPTION	QTY	UNIT
	sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		
19	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	47.50	KG
20	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	50.70	Sqm
21	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	7.00	Sqm
	PLUMBING & SANITARY FITTINGS		
22	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
23	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
24	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
25	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings	10.00	M

SN	DESCRIPTION	QTY	UNIT
	with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes		
26	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	10.00	M
27	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
28	Flexible pipe 32 mm dia	1.00	Each
29	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
30	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
31	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
	SIGNAGES		
34	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	7.00	Each
35	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame., 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

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2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
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Electrical Estimate

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1.01	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. 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.Group B	7.00	Point
1.02	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. 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.Group C	9.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium	60.00	Metre

SN	DESCRIPTION	QTY	UNIT
	class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire		
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	110.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	6.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	12.00	Each
4.03	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	2.00	Each
4.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	2.00	Each
4.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface	2.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	15.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	15.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	10.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	10.00	Each
6.00	DB AND ITS ACCESSORIES		

SN	DESCRIPTION	QTY	UNIT
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator) 16 way, Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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. Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
8.00	EARTHING		
8.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
8.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	80.00	Metre
9.00	SUPPLY OF LT CABLES		
9.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	25.00	Meter
10.00	CABLE LAYING		
10.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	25.00	Metre
11.00	LT CABLE TERMINATION		
11.01	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. 2X 10sq. mm (28mm)	4.00	Each
12.00	LIGHT FITTINGS & FANS		
12.01	SITC of surface mounted, extruded aluminium with powder	11.00	Each

SN	DESCRIPTION	QTY	UNIT
	coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.		
12.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
12.03	SITC of wall fan, white colour, 5 star rated as per BEE complete with blades, casing, wall mounting accessories etc.	1.00	Each
12.04	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with all required accessories.	1.00	Each
12.05	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

7. CH TAUNIDEVI, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Toilet fittings
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium internal doors and partition considered.
 - Window blinds considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Patch work in Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
5. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
DISMANTLING & DEMOLITION WORKS			
1	Dismantling of flushing cistern of all types (C.I. / PVC/ Vitrous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	2.00	Each
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	64.40	Sqm
3	Dismantling of wash basin/ Sink, closing the pipeline with end cap if necessary, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	2.00	Each
4	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	2.00	Each
5	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	2.00	Each
PLASTERING			
6	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	20.00	Sqm
7	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	5.00	Sqm
DOORS & WINDOWS			
8	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	6.00	Sqm
TILE WORK			
9	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the	10.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
10	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	3.60	Sqm
11	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	60.80	Sqm
12	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	0.00	Sqm
13	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	47.70	Sqm
	PAINTING		
14	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	80.5	Sqm
15	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	103.30	Sqm
16	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	35.70	Sqm
17	Melamine polishing on wood work (one or more coat)	6.00	Sqm
	ALUMINIUM WORKS		
18	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be	121.00	KG

Sl.No	DESCRIPTION	QTY	UNIT
	paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		
19	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	32.80	KG
20	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	49.00	Sqm
21	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	6.00	Each
22	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): toughened glass of 6 mm thickness.	4.80	Sqm
	PLUMBING & SANITARY FITTINGS		
23	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid	2.00	Each
24	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	2.00	Each
25	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	2.00	Each
26	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
27	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	11.00	Each
28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	2.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
29	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
30	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
34	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	2.00	Each
35	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
36	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
37	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	2.00	Each
38	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	2.00	Each
39	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	2.00	Each
	SIGNAGES		
40	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size	5.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	16" x 10". Complete as per the per the direction of Engineer in charge.		
41	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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	7.00	Point

SN	DESCRIPTION	QTY	UNIT
	required. 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.Group C		
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X2.5 sq.mm + 1 X2.5 sq mm earth wire	60.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X6 sq.mm + 1X6 sq.mm earth wire	20.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	10.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	14.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	14.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	8.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	8.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each

SN	DESCRIPTION	QTY	UNIT
6.03	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. Triple pole	1.00	Each
6.04	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. Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required. 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	10.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.03	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

8. CH SUJANPUR, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium doors and partitions considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered.
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

SN	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	34.20	Sqm
	PLASTERING		
2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	20.00	Sqm
3	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	10.00	Sqm
	DOORS & WINDOWS		
4	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	8.00	Each
5	Providing and fixing aluminium handles, 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:125 mm	8.00	Each
6	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	4.00	Each
7	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	4.00	Each
8	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	9.00	Sqm
	TILE WORK		
9	Providing and laying vitrified floor tiles in different sizes (thickness	34.20	Sqm

SN	DESCRIPTION	QTY	UNIT
	to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm		
10	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	37.50	Sqm
	PAINTING		
11	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	62.8	Sqm
12	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	62.80	Sqm
13	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	21.40	Sqm
14	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	34.20	Sqm
	ALUMINIUM WORKS		
15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P.brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	102.30	KG
16	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	23.40	KG
17	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steels crews etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	36.30	Sqm

SN	DESCRIPTION	QTY	UNIT
18	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	3.00	Each
19	Providing and fixing glazing in door, window, ventilator shutters and partitions etc.with EPDM rubber /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): toughened glass of 6 mm thickness.	3.30	Sqm
	PLUMBING & SANITARY FITTINGS		
20	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size5 50x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
21	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
22	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	3.00	Each
23	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia	1.00	Each
24	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
25	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
26	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
27	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
28	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	20.00	M

SN	DESCRIPTION	QTY	UNIT
29	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
30	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
32	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
33	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
SIGNAGES			
34	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
35	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)

6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	5.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	55.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	1.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	5.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in	5.00	Each

SN	DESCRIPTION	QTY	UNIT
	recess etc as required.6 module		
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	7.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	7.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	3.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	3.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	1.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	70.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC	35.00	Meter

SN	DESCRIPTION	QTY	UNIT
	sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm		
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	70.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	1.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

9. CH BARSAR, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Wooden doors and windows
 - Toilet fittings
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 for full brick for door closing and RO plant room.
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Steel works: considered for RO plant roof
5. Doors
 - Necessary Internal door frame in Sal wood or similar wood with flush door shutters
 - uPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
6. Windows and Ventilators
 - Necessary Aluminums windows are proposed as per drawing
 - 4mm thick float glass panes are considered
 - Window grills are made up of welded MS sections
7. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
8. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
9. Necessary plumbing and sanitary fittings as per estimate.
10. Necessary signage boards provided

Civil Estimate

SN	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	3.00	Each
2	Dismantling of flushing cistern of all types (C.I. / PVC/ Vitrous China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	3.00	Each
3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	11.60	Sqm
4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.40	Cum
5	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	17.50	m
6	Dismantling of wash basin/ Sink, closing the pipeline with end cap	3.00	Each

SN	DESCRIPTION	QTY	UNIT
	if necessary, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead		
7	Dismantling of plumbing pipe lines of 15mm dia to 110mm dia pipes, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per the direction of engineer in-charge.	15.00	Metre
8	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	3.00	Each
9	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	3.00	Each
	RCC WORK		
10	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.10	Cum
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	4.80	Kg
12	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	0.60	Sqm
	MASONRY WORK		
13	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 : 6 coarse sand)	5.70	Cum
	PLASTERING		
14	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	66.30	Sqm
15	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	5.00	Sqm
	DOORS & WINDOWS		
16	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door	4.40	sqm

SN	DESCRIPTION	QTY	UNIT
	shutter).		
17	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	13.50	M
18	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	5.40	Sqm
19	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	6.00	Sqm
	TILE WORK		
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.10	Sqm
21	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	2.10	Sqm
22	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	14.90	Sqm
23	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	5.00	Sqm
24	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	45.70	Sqm

SN	DESCRIPTION	QTY	UNIT
	PAINTING		
25	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	149	Sqm
26	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	46.30	Sqm
27	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	244.70	Sqm
28	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	18.40	Sqm
29	Melamine polishing on wood work (one or more coat)	23.70	Sqm
30	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	37.60	Sqm
	STEEL WORKS		
31	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	45.80	KG
32	Providing at all heights, levels and locations Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676. The sheet shall be fixed using self drilling/ self tapping SS screws of size 5.5x65 mm with EPDM seal complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealant where required etc. but excluding the cost of purlins, rafters and trusses 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm.	6.70	sqm
	ALUMINIUM WORKS		
33	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	9.80	KG
34	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene	8.50	KG

SN	DESCRIPTION	QTY	UNIT
	gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)		
35	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	1.70	Sqm
36	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	0.70	Sqm
37	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1.00	Each
38	Providing and fixing aluminium handles, 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 : 75mm	4.00	Each
	PLUMBING & SANITARY FITTINGS		
39	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
40	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
41	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
42	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
43	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	8.00	Each
44	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each

SN	DESCRIPTION	QTY	UNIT
45	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
46	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
47	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
48	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
49	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
50	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
51	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
52	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
53	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
54	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
55	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
56	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size	5.00	Each

SN	DESCRIPTION	QTY	UNIT
	16" x 10". Complete as per the per the direction of Engineer in charge.		
57	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	4.00	Point
1.02	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	8.00	Point

SN	DESCRIPTION	QTY	UNIT
	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. 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.Group C		
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	3.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	75.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X4 sq.mm + 1X4 sq.mm earth wire	20.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	1.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	2.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	1.00	Each
4.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	1.00	Each
4.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	1.00	Each
4.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required	1.00	Each

SN	DESCRIPTION	QTY	UNIT
	(RoHS compliant) 6 module moulded plastic box on surface		
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	15.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	15.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	9.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	9.00	Each
5.05	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	1.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
6.08	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)		
7.00	SUPPLY OF LT CABLES		
7.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	25.00	Meter
8.00	CABLE LAYING		
8.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	25.00	Metre
9.00	LT CABLE TERMINATION		
9.01	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. 2X 10sq. mm (28mm)	4.00	Each
10.00	Earthing		
10.01	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required.3.15 mm copper conductor (10 SWG)	40.00	Metre
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with all required accessories.	3.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each
11.04	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.05	SITC of wall fan, white colour, 5 star rated as per BEE complete with blades, casing, wall mounting accessories etc.	1.00	Each

10. CH NADAUN, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
2. Doors
 - Aluminium internal doors and partition considered.
 - Window blinds considered.
3. Painting
 - Necessary scrapping considered.
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
4. Necessary plumbing and sanitary fittings as per estimate.
5. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	PLASTERING		
1	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	10.00	Sqm
2	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	5.00	Sqm
	DOORS & WINDOWS		
3	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	9.20	Sqm
	TILE WORK		
4	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	65.70	Sqm
	PAINTING		
5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	54.2	Sqm
6	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	54.20	Sqm
7	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	11.00	Sqm
	ALUMINIUM WORKS		
8	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia	63.20	KG

Sl.No	DESCRIPTION	QTY	UNIT
	and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		
9	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	18.60	KG
10	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	22.60	Sqm
11	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	3.00	Each
12	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): toughened glass of 6 mm thickness.	2.40	Sqm
	PLUMBING & SANITARY FITTINGS		
13	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
14	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
15	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	4.00	Each
16	Providing and fixing P.V.C. waste pipe for sink or wash	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia		
17	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
18	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
19	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
20	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	20.00	M
22	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
23	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	2.00	Each
24	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
25	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.		
26	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
27	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
28	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	2.00	Point
1.02	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. 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.Group C	5.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	45.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	50.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X4 sq.mm + 1X4 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	2.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	9.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		

SN	DESCRIPTION	QTY	UNIT
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	8.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	8.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	7.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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. Single pole	24.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
7.00	EARTHING		

SN	DESCRIPTION	QTY	UNIT
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	55.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Metre
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	1.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	5.00	Each
11.03	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

11. CHC DHANETA, HAMIRPUR DISTRICT

Scope of civil works of the proposed project

1. 12 mm thick patch plastering in CM 1:4 for wall.
2. Aluminium works
 - Necessary Aluminums partitions are proposed as per drawing
 - 12mm thick particle board considered
 - 6mm toughened glass considered
3. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
4. Painting
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Plaster of paris putty considered for false ceiling areas
5. Necessary plumbing and sanitary fittings as per estimate.
6. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	PLASTERING		
1	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	10.00	Sqm
	DOORS & WINDOWS		
2	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	8.00	Each
3	Providing and fixing aluminium handles, 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:125 mm	8.00	Each
4	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	4.00	Each
5	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	4.00	Each
6	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The	2.00	sqm

	colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.		
	TILE WORK		
7	Providing and laying Vittrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	23.20	Sqm
8	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	46.10	Sqm
	PAINTING		
9	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	159.20	Sqm
10	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	156.20	Sqm
11	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	28.90	Sqm
12	Melamine polishing on wood work (one or more coat)	36.10	Sqm
13	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	15.00	Sqm
	ALUMINIUM WORKS		
14	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat	115.40	KG

	angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		
15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	27.20	KG
16	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	51.40	Sqm
17	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): toughened glass of 6 mm thickness.	1.00	Sqm
	PLUMBING & SANITARY FITTINGS		
18	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	2.00	Each
19	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each

20	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
21	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	2.00	Each
22	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
23	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	2.00	Each
24	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
25	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
26	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	1.00	M
27	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
SIGNAGES			
28	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer	6.00	Each

	in charge.		
29	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. switch, modular plate, suitable GI box and earthing the point with 1.5	3.00	Point

SN	DESCRIPTION	QTY	UNIT
	sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.Group B		
1.02	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. 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.Group C	8.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	39.84	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	49.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre
3.00	S/F PVC CONDUIT		
3.01	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.(ISI Make25 mm	10.00	Metre
3.02	Supply and fiing of 25 mm sized Medium Casing Caping white/Ivory colour with its all accessories	10.00	Metre
4.00	MODULAR TYPE BLANKING PLATE		
4.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
5.00	MODULAR BOXES AND PLATE		
5.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.2 module	2.00	Each
5.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	7.00	Each
5.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for	4.00	Each

SN	DESCRIPTION	QTY	UNIT
	modular switches in recess etc as required.6 module		
5.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant)2 module moulded plastic box on surface	2.00	Each
5.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	1.00	Each
5.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface	1.00	Each
6.00	MODULAR TYPE SWITCH/SOCKET		
6.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	12.00	Each
6.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	12.00	Each
6.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	6.00	Each
6.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	6.00	Each
6.05	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A SP switch with indicator	1.00	Each
6.06	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1.00	Each
7.00	DB AND ITS ACCESSORIES		
7.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each

SN	DESCRIPTION	QTY	UNIT
7.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
7.03	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. Triple pole	1.00	Each
7.04	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. Single pole	20.00	Each
7.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
7.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
7.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
8.00	EARTHING		
8.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
8.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	30.00	Metre
9.00	SUPPLY OF LT CABLES		
9.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
10.00	CABLE LAYING		
10.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
11.00	LT CABLE TERMINATION		
11.0	Supplying and making end termination with brass	4.00	Each

SN	DESCRIPTION	QTY	UNIT
1	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. 2X 10sq. mm (28mm)		h
12.00	LIGHT FITTINGS & FANS		
12.01	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Eac h
12.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Eac h
12.03	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Eac h

12. CH JAISINGHPUR, KANGRA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Necessary tile works
2. 12 mm thick patch plastering in CM 1:4 for walls
3. Doors
 - Aluminium doors with necessary fittings also considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm patch works considered
5. Painting
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Plaster of paris putty 2mm considered for false ceiling areas
6. Necessary plumbing fittings as per estimate.
7. Aluminium partitions considered in proposal area
8. 12.5mm tapered edge gypsum moisture resistant board for false ceiling considered in dialysis area
9. Necessary signage boards provided

Civil Estimate

S	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	2.00	Sqm
	PLASTERING		
2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	5.00	Sqm
	DOORS & WINDOWS		
3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 200x10 mm	4.00	Each
4	Providing and fixing aluminium handles, 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: 125 mm	14.00	Each
5	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	7.00	Each
6	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc.	2.00	Each

S	DESCRIPTION	QTY	UNIT
	complete.		
7	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	5.10	Sqm
8	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	10.00	Each
	TILE WORK		
9	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	5.00	Sqm
1	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	5.00	Sqm
1	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	60.00	Sqm
	PAINTING		
1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	134.9	Sqm
1	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	97.00	Sqm
1	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	23.80	Sqm
1	Melamine polishing on wood work (one or more coat)	7.20	Sqm
1	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	38.50	Sqm
	ALUMINIUM WORKS		

S	DESCRIPTION	QTY	UNIT
1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	188.30	KG
1	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	38.90	KG
1	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	72.80	Sqm
2	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	6.00	Each
2	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	5.40	Sqm
PLUMBING & SANITARY FITTINGS			
2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
2	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	6.00	Each
2	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each

S	DESCRIPTION	QTY	UNIT
2	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	10.00	M
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	10.00	M
2	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
2	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
3	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kg/cm ² - External work- Exposed on wall	5.00	M
3	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
	SIGNAGES		
3	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	6.00	Each
3	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for	1.30	Sqm

S	DESCRIPTION	QTY	UNIT
	Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.		

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc.	7.00	Point

SN	DESCRIPTION	QTY	UNIT
	as required.Group B		
1.02	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. 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.Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	60.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	75.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	7.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	11.00	Each
5.02	Supplying and fixing following modular switch/socket	11.00	Each

SN	DESCRIPTION	QTY	UNIT
	on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet		
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	7.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	24.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper	50.00	Metre

SN	DESCRIPTION	QTY	UNIT
	conductor (10 SWG)		
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	12.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each
11.03	SITC of wall fan, white colour, 5 star rated as per BEE complete with blades, casing, wall mounting accessories etc.	1.00	Each
11.04	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

13. CH DEHRA, KANGRA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick work
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 and Half brick masonry for wall as per drawing
3. 12 mm thick patch plastering in CM 1:4 for walls.
4. Steel works: considered for wash slab frame
5. Doors
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors also considered.
6. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
7. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Plaster of putty 3mm considered for false ceiling areas
8. Necessary plumbing and sanitary fittings as per estimate.
9. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.60	Cum
2	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	41.00	Sqm
3	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	1.00	Each
4	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	8.20	M
	RCC WORK		
5	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels,	0.10	Cum

Sl.No	DESCRIPTION	QTY	UNIT
	bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).		
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	8.00	Kg
7	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	1.40	Sqm
	MASONRY WORK		
8	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 : 6 coarse sand)	0.50	Cum
9	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)	1.20	Cum
	PLASTERING		
10	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	30.80	Sqm
	DOORS & WINDOWS		
11	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	14.00	Each
12	Providing and fixing aluminium handles, 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:125 mm	14.00	Each
13	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	7.00	Each
14	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	2.00	Each
15	Providing and fixing aluminium tower bolts, ISI	2.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm		
16	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).	1.70	sqm
17	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	5.00	M
	TILE WORK		
18	Providing and fixing 18 mm thick gang saw cut, 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), joint treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade. Area	0.80	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	of slab over 0.50 sqm		
19	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	15.00	Sqm
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	8.70	Sqm
21	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	2.00	Sqm
22	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	37.80	Sqm
23	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	33.60	Sqm
	PAINTING		
24	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	30.80	Sqm
25	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @	107.90	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	0.75 ltr /10 sqm		
26	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	1.20	Sqm
27	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	90.2	sqm
28	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	37.80	Sqm
29	Melamine polishing on wood work (one or more coat)	15.10	Sqm
	STEEL WORKS		
30	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	20.00	KG
	ALUMINIUM WORKS		
31	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	80.20	KG
32	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat	43.30	KG

Sl.No	DESCRIPTION	QTY	UNIT
	angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)		
33	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	35.30	Sqm
34	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): toughened glass of 6 mm thickness.	5.60	Sqm
35	Providing and fixing aluminium handles, 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 : 100mm	3.00	Each
	PLUMBING & SANITARY FITTINGS		
36	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
37	Providing and fixing wash basin with C.I. brackets, 15	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps		
38	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
39	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	7.00	Each
40	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
41	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
42	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
43	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	10.00	M
44	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kg/cm ² - External work- Exposed on wall	5.00	M
45	Flexible pipe32 mm dia	1.00	Each
46	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
47	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
48	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
49	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
50	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
SIGNAGES			
51	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
52	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame, 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.

3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	7.00	Point
1.02	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. 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.Group C	4.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC	50.00	Metre

SN	DESCRIPTION	QTY	UNIT
	insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X1.5 sq.mm + 1X1.5 sq.mm earth wire		
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required 2X2.5 sq.mm + 1 X2.5 sq mm earth wire	90.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required 2X4 sq.mm + 1X4 sq.mm earth wire	20.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	5.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	10.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	13.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	13.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	10.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	10.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator) 16 way, Double door	1.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each

SN	DESCRIPTION	QTY	UNIT
6.03	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required 25A, 4P, 100mA	1.00	Each
6.04	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	1.00	Each
6.05	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. Triple pole	1.00	Each
6.06	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. Single pole	30.00	Each
6.07	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.08	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.09	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	2.00	Each
7.00	EARTHING		
7.01	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	70.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	40.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	40.00	Metre
10.00	LT CABLE TERMINATION		
10.01	Supplying and making end termination with brass	4.00	Each

SN	DESCRIPTION	QTY	UNIT
	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. 2X 10sq. mm (28mm)		
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	9.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with all required accessories.	1.00	Each
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
11.04	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

14. CH DADASIBBA, KANGRA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Wooden doors and windows
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 for half brick for toilet partition
3. RCC in M20 ratio for lintel and necessary formwork considered.
4. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
5. Doors
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors and partition also considered.
6. Windows and Ventilators
 - Necessary Aluminums windows are proposed as per drawing
 - 4mm thick float glass panes are considered
7. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
8. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
 - Necessary scrapping considered.
9. Necessary plumbing and sanitary fittings as per estimate.
10. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : 15.12.1 Of area 3 sq. metres and below	1.00	Each
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	45.90	Sqm
	RCC WORK		
3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.10	Cum
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	8.00	Kg

Sl.No	DESCRIPTION	QTY	UNIT
	Thermo-Mechanically Treated bars of grade Fe-500D or more.		
5	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	0.90	Sqm
	MASONRY WORK		
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level: Cement mortar 1:4 (1 cement :4 coarse sand)	1.20	Cum
	PLASTERING		
7	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	37.90	Sqm
	DOORS & WINDOWS		
8	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C. and bathroom door shutter).	2.10	sqm
9	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	5.20	M
10	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to	12.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	required colour or shade, with necessary screws complete:150x10 mm		
11	Providing and fixing aluminium handles, 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:125 mm	12.00	Each
12	Providing and fixing aluminium hanging floor door stopper, ISI marked,anodised(anodic coating not less than grade AC 10 as perIS:1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.Twin rubber stopper	6.00	Each
13	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	6.00	Each
14	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	2.00	Each
	TILE WORK		
15	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	17.40	Sqm
16	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	13.40	Sqm
17	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse	4.10	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	sand), including pointing the joints with white cement and matching pigment etc., complete.		
18	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	45.00	Sqm
	PAINTING		
19	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	12.40	Sqm
20	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	95.30	Sqm
21	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	97.70	Sqm
22	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	8.40	Sqm
23	Melamine polishing on wood work (one or more coat)	13.20	Sqm
24	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	31.80	Sqm
	ALUMINIUM WORKS		
25	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated	108.40	KG

Sl.No	DESCRIPTION	QTY	UNIT
	aluminium (minimum thickness of powder coating 50 micron)		
26	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	63.20	KG
27	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	1.00	Sqm
28	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	39.70	Sqm
29	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): toughened glass of 6 mm thickness.	3.00	Sqm
30	Providing and fixing aluminium handles, 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 : 100mm	3.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	PLUMBING & SANITARY FITTINGS		
31	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lidProviding and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
32	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
33	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
34	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
35	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
36	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
37	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
38	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at	20.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes		
39	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	10.00	M
40	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
41	Flexible pipe 32 mm dia	1.00	Each
42	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
43	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
44	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
	SIGNAGES		
45	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
46	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame., 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC	1.00	Point

SN	DESCRIPTION	QTY	UNIT
	insulated copper conductor single core cable etc. as required.Group C		
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	45.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	55.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	9.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	9.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding	7.00	Each

SN	DESCRIPTION	QTY	UNIT
	modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet		
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	7.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter

SN	DESCRIPTION	QTY	UNIT
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Each
11.02	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each

15. CH INDORA, KANGRA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Wooden doors and windows
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium doors and partition considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
DISMANTLING & DEMOLITION WORKS			
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2.00	Each
2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	2.80	CUM
3	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	10.20	m
PLASTERING			
4	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	30.00	Sqm
5	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	20.00	Sqm
DOORS & WINDOWS			
5	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 150x10 mm	12.00	Each
6	Providing and fixing aluminium handles, 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: 125 mm	12.00	Each
7	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	6.00	Each
8	Providing and fixing aluminium extruded section body	6.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.		
9	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	11.50	Sqm
	TILE WORK		
10	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	27.80	Sqm
11	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	30.30	Sqm
	PAINTING		
12	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	94	Sqm
13	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	94.00	Sqm
14	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	27.60	Sqm
15	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	19.60	Sqm
16	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	25.80	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	ALUMINIUM WORKS		
17	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	74.90	KG
18	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	37.70	KG
19	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	31.10	Sqm
20	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	5.00	Each
21	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	4.80	Sqm
	PLUMBING & SANITARY FITTINGS		
22	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
23	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction	5.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall		
24	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	3.00	Each
25	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
26	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
27	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
28	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
29	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
31	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing. This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
32	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	1.00	Each
33	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		
34	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
35	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
36	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	3.00	Each
37	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

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HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

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2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	4.00	Point
1.02	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. 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.Group C	6.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	60.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	10.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	3.00	Each

SN	DESCRIPTION	QTY	UNIT
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	7.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	11.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	11.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	4.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	4.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections,	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	testing and commissioning etc. as required.(for UPS IN AND OUT)		
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.		
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

16. CH ANNI, KULLU DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls.
3. Doors
 - Aluminium doors and partition considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles for dialysis area
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing considered.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	35.00	Sqm
	PLASTERING		
2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	10.00	Sqm
	DOORS & WINDOWS		
3	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	2.00	Each
4	Providing and fixing aluminium handles, 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:125 mm	2.00	Each
5	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	1.00	Each
6	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	adjustment with necessary accessories and screws etc. complete.		
7	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	3.60	sqm
	TILE WORK		
8	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	31.70	Sqm
9	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	35.00	Sqm
10	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	12.39	SQM
	PAINTING		
11	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	175.00	Sqm
12	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	206.70	Sqm
13	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	20.20	Sqm
14	Melamine polishing on wood work (one or more coat)	30.60	Sqm
15	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the	33.40	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	surface even and smooth complete.		
	ALUMINIUM WORKS		
16	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	19.00	KG
17	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	6.80	KG
18	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	5.80	Sqm
19	Providing and fixing glazing in door, window,	1.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.		
	PLUMBING & SANITARY FITTINGS		
20	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	4.00	Each
21	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
22	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
23	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
24	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	20.00	M
25	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
	SIGNAGES		
26	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	6.00	Each
27	NAME BOARD ACP SHEET WITH MULTIWOOD	1.30	Sqm

SI.No	DESCRIPTION	QTY	UNIT
	LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.		

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	6.00	Point

SN	DESCRIPTION	QTY	UNIT
1.02	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. 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.Group C	10.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	4.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	60.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	80.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	3.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	7.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	15.00	Each

SN	DESCRIPTION	QTY	UNIT
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	15.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	4.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	4.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		

SN	DESCRIPTION	QTY	UNIT
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	60.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	15.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	4.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

17. CH BAGSAID, MANDI DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Necessary tile works
2. 12 mm thick patch plastering in CM 1:4 for walls.
3. Aluminium works
 - Aluminium doors and partition considered.
4. Tile Works
 - Patch work in Vitrified tiles of size 600*600 mm is considered for floor tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
6. Necessary plumbing works considered.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	5.00	Sqm
	PLASTERING		
2	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	10.00	Sqm
	DOORS & WINDOWS		
3	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 150x10 mm	10.00	Each
4	Providing and fixing aluminium handles, 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: 125 mm	10.00	Each
5	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	5.00	Each
6	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with	5.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	necessary accessories and screws etc. complete.		
7	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	4.40	sqm
	TILE WORK		
8	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	5.50	Sqm
9	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	12.39	SQM
	PAINTING		
10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	0.70	Sqm
11	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	38.60	Sqm
12	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	38.60	Sqm
13	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	5.00	Sqm
	ALUMINIUM WORKS		
14	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with	97.90	KG

Sl.No	DESCRIPTION	QTY	UNIT
	required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)		
15	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	26.60	KG
16	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	36.30	Sqm
17	Providing and fixing glazing in door, window, ventilator shutters and partitions etc.with EPDM rubber /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): toughened glass of 6 mm thickness.	3.80	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	PLUMBING WORKS		
18	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	1.00	Each
19	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
20	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
22	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	20.00	M
23	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
	SIGNAGES		
24	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
25	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications	1.30	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.		

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	2.00	Point

SN	DESCRIPTION	QTY	UNIT
1.02	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. 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.Group C	3.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	1.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	20.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	30.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X4 sq.mm + 1X4 sq.mm earth wire	15.00	Metre
2.04	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	10.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	2.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	3.00	Each

SN	DESCRIPTION	QTY	UNIT
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	6.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	6.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	2.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	2.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	1.00	Each
6.03	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. Triple pole	1.00	Each
6.04	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.Single pole	16.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	8.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	UPS IN AND OUT)		
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	4.00	Each
11.02	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 10 W LED light fixture (2 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 50 Lm/W, CRI 80 etc with all required accessories.	1.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

SN	DESCRIPTION	QTY	UNIT
11.04	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	1.00	Each

18. CH PADHAR, MANDI DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 for full brick and half brick as per drawing
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Doors
 - Aluminium doors and partition considered.
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Toughened glass door for entrance
5. Tile Works
 - Patch work in Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
6. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
7. Necessary plumbing and sanitary fittings as per drawing.
8. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	77.20	SQM
	RCC WORK		
2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.50	Cum
3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	40.00	Kg
4	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	6.80	Sqm
	MASONRY WORK		

SI.N o	DESCRIPTION	QTY	UNI T
5	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 : 6 coarse sand)	5.70	Cum
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level: Cement mortar 1:4 (1 cement :4 coarse sand)	9.20	Cum
	PLASTERING		
7	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	92.00	Sqm
8	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	20.00	Sqm
	DOORS & WINDOWS		
9	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	16.00	Each
10	Providing and fixing aluminium handles, 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:125 mm	16.00	Each
11	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	8.00	Each
12	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	8.00	Each
13	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	4.00	EAC H
14	Providing and fixing to existing door frames24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless	3.40	sqm

Sl.No	DESCRIPTION	QTY	UNIT
	steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C. and bathroom door shutter).		
15	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. Extruded section profile size 48x40 mm	10.00	M
16	Providing and fixing of glass door SS Patch Lock with out handle in toughened glass door including all necessary screws etc. complete.	1.00	Each
17	Providing and fixing Steel S.S- 304 (D) Door Pull Both Side Handle of 12 inch, one Set (2 Handles) (best make of approved quality) for Glass, Wooden or similar doors including necessary cutting and making good etc. complete	2.00	Set
18	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc. to be paid separately).	3.20	Sqm
	TILE WORK		
19	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps	22.20	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
20	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	4.70	Sqm
21	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	72.00	Sqm
22	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	27.20	Sqm
	PAINTING		
23	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	76.50	Sqm
24	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	228.10	Sqm
25	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	162.2	sqm
26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	34.80	Sqm
	ALUMINIUM WORKS		

Sl.No	DESCRIPTION	QTY	UNIT
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	178.60	KG
28	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	72.20	KG
29	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	23.10	Sqm
30	Providing and fixing glazing in aluminium door,	5.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 5.0 mm thickness (weight not less than 10kg/sqm)		
31	Providing and fixing glazing in door, window, ventilator shutters and partitions etc.with EPDM rubber /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): toughened glass of 6 mm thickness.	6.80	Sqm
32	Providing and fixing aluminium handles, 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 : 100mm	12.00	Each
	PLUMBING & SANITARY FITTINGS		
33	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	2.00	Each
34	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	10.00	Each
35	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
36	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
37	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints	20.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes		
38	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
39	Flexible pipe 32 mm dia	2.00	Each
40	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	2.00	Each
41	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	2.00	Each
42	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	2.00	Each
43	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	10.00	M
44	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	2.00	Each
45	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with	2.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid		
46	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	2.00	Each
	SIGNAGES		
47	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the direction of Engineer in charge.	6.00	Each
48	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given - 1 Inch GI pipe frame (16Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	3.00	Point
1.02	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. 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.Group C	10.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	4.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	60.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X2.5 sq.mm + 1 X2.5 sq mm earth wire	75.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC	12.00	Metre

SN	DESCRIPTION	QTY	UNIT
	insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required 2X6 sq.mm + 1X6 sq.mm earth wire		
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	6.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	6.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	12.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	12.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	6.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	6.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator) 16 way, Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and	2.00	Each

SN	DESCRIPTION	QTY	UNIT
	commissioning etc. as required up to 25A, 2P, 100mA		
6.04	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. Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Metre
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	13.00	Each

SN	DESCRIPTION	QTY	UNIT
11.0 2	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	2.00	Each
11.0 3	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each

19. CH DHARAMPUR, MANDI DISTRICT

Scope of civil works of the proposed project

1. Masonry works: Using bricks of class designation 7.5 for full brick as per drawing
2. 12 mm thick plastering in CM 1:4 for walls and 6mm plaster for ceiling portions.
3. Doors
 - Aluminium doors and partition considered.
 - Grill work considered in RO plant room
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per drawing.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	RCC WORK		
1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.90	Cum
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	90.00	Kg
3	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	9.10	Sqm
	MASONRY WORK		
4	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 : 6 coarse sand)	16.10	Cum
	PLASTERING		
5	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	185.30	Sqm
6	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	77.70	Sqm
	DOORS & WINDOWS		
7	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:200x10 mm	16.00	each

Sl.No	DESCRIPTION	QTY	UNIT
8	Providing and fixing aluminium handles, 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:125 mm	16.00	each
9	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	9.00	each
10	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	9.00	each
11	Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to openings/ wooden frames with rawl plugs screws etc	34.20	kg
	TILE WORK		
12	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	69.20	Sqm
13	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	18.90	Sqm
	PAINTING		
14	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	18.5	Sqm
15	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	12.50	Sqm
16	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	263.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
17	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	13.60	Sqm
18	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	25.00	Sqm
	ALUMINIUM WORKS		
19	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	132.50	KG
20	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	67.90	KG
21	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	53.20	Sqm
22	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	10.00	Sqm
23	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	6.00	Each
24	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM	2.40	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)		
25	Providing and fixing aluminium handles, 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 : 75mm	4.00	Each
	PLUMBING & SANITARY FITTINGS		
26	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
27	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	10.00	M
28	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
29	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia	1.00	Each
30	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
31	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making	15.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	good the walls etc. 20 mm nominal outer dia Pipes		
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	15.00	M
35	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	1.00	Each
36	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm2 - External work-Exposed on wall	5.00	M
37	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
38	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
39	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
40	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
41	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
42	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

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1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	6.00	Point
1.02	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. 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.Group C	4.00	Point

SN	DESCRIPTION	QTY	UNIT
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X1.5 sq.mm + 1X1.5 sq.mm earth wire	30.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X2.5 sq.mm + 1 X2.5 sq mm earth wire	65.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X4 sq.mm + 1X4 sq.mm earth wire	10.00	Metre
2.04	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre
3.00	S/F PVC CONDUIT		
3.01	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. (ISI Make 25 mm)	10.00	Metre
3.02	Supply and fixing of 25 mm sized Medium Casing Caping white/Ivory colour with its all accessories	10.00	Meter
4.00	MODULAR TYPE BLANKING PLATE		
4.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
5.00	MODULAR BOXES AND PLATE		
5.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 2 module	2.00	Each
5.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	4.00	Each
5.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	6.00	Each
5.04	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 2 module moulded plastic box on surface	2.00	Each

SN	DESCRIPTION	QTY	UNIT
5.05	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 3 module moulded plastic box on surface	2.00	Each
5.06	Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (RoHS compliant) 6 module moulded plastic box on surface	1.00	Each
6.00	MODULAR TYPE SWITCH/SOCKET		
6.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	11.00	Each
6.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	11.00	Each
6.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	9.00	Each
6.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	9.00	Each
6.05	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A SP switch with indicator	1.00	Each
6.06	Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	1.00	Each
7.00	DB AND ITS ACCESSORIES		
7.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
7.02	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each

SN	DESCRIPTION	QTY	UNIT
7.03	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. Triple pole	1.00	Each
7.04	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. Single pole	20.00	Each
7.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
7.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
8.00	EARTHING		
8.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
8.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	40.00	Metre
9.00	SUPPLY OF LT CABLES		
9.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
10.00	CABLE LAYING		
10.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
11.00	LT CABLE TERMINATION		
11.01	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. 2X 10sq. mm (28mm)	4.00	Each
12.00	LIGHT FITTINGS & FANS		
12.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	7.00	Each

SN	DESCRIPTION	QTY	UNIT
12.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each
12.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

20. CH JUNGA, SHIMLA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick works
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium doors and partition considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
DISMANTLING AND DEMOLISHING			
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.50	Cum
2	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineerin-charge.	3.60	Sqm
3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	11.60	Sqm
PLASTERING			
4	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	10.00	Sqm
5	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	20.00	Sqm
DOORS & WINDOWS			
6	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:200x10 mm	10.00	Each
7	Providing and fixing aluminium handles, 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:125 mm	10.00	Each
8	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	4.00	Each
9	Providing and Fixing Aluminium Double U channels of	1.20	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	required size for sliding doors		
	TILE WORK		
10	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	36.40	Sqm
11	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	27.80	Sqm
	ALUMINIUM WORKS		
12	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	9.00	Sqm
	ALUMINIUM WORK		
13	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	169.80	KG
14	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-	32.10	KG

Sl.No	DESCRIPTION	QTY	UNIT
	in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)		
15	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	66.40	Sqm
16	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	5.00	Each
17	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	4.80	Sqm
	PAINTING		
18	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	91.6	Sqm
19	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	82.60	Sqm
20	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	8.20	Sqm
21	Melamine polishing on wood work (one or more coat)	18.80	Sqm
22	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	3.60	Sqm
	PLUMBING & SANITARY FITTINGS		
23	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
24	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction	5.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall		
25	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	3.00	Each
26	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
27	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
28	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
29	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	15.00	M
32	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
33	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	2.00	Each
34	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		
35	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
36	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
37	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
38	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

**NB: 1. Incoming supply for the facility should be provided from hospital authorities.
2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.**

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	50.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X2.5 sq.mm + 1 X2.5 sq mm earth wire	75.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre

SN	DESCRIPTION	QTY	UNIT
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	8.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	8.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	6.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	6.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)12 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	1.00	Each

SN	DESCRIPTION	QTY	UNIT
6.04	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. Triple pole	1.00	Each
6.05	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. Single pole	20.00	Each
6.06	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.07	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
6.08	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		

SN	DESCRIPTION	QTY	UNIT
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	10.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/MW) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each
11.03	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each

21. CH THEOG, SHIMLA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick works
 - Tile works
2. Masonry works: Using bricks of class designation 7.5 for full brick
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Doors
 - Aluminium doors and partition considered.
 - UPVC door frames and PVC door shutters are considered for toilets.
5. Tile Works
 - Patch work in Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
6. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
7. Necessary plumbing and sanitary fittings as per drawing.
8. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.90	Cum
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	3.70	Sqm
	RCC WORK		
3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	0.10	Cum
4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	5.80	Kg
5	Centering and shuttering including strutting, propping	1.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers		
	MASONRY WORK		
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level: Cement mortar 1:4 (1 cement :4 coarse sand)	0.70	Cum
	PLASTERING		
7	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	13.60	Sqm
	DOORS & WINDOWS		
8	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge (For W.C. and bathroom door shutter).	2.10	sqm
9	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm	5.20	M
10	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 150x10 mm	20.00	Each
11	Providing and fixing aluminium handles, ISI marked,	20.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	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:125 mm		
12	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	6.00	Each
13	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	10.00	Each
14	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	2.00	Each
	TILE WORK		
15	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	13.40	Sqm
16	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	12.20	Sqm
17	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	3.60	Sqm
18	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the	5.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	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), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm		
19	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	92.00	SQM
	PAINTING		
20	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	7.20	Sqm
21	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	266.90	Sqm
22	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	271.10	Sqm
23	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	7.10	Sqm
24	Melamine polishing on wood work (one or more coat)	6.30	Sqm
25	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	27.60	Sqm
	ALUMINIUM WORKS		
26	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	299.70	KG

Sl.No	DESCRIPTION	QTY	UNIT
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	79.80	KG
28	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	6.00	Sqm
29	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	102.50	Sqm
30	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	17.30	Sqm
31	Providing and fixing aluminium handles, 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 : 100mm	9.00	Each
32	Providing and fixing Brass 100mm mortice latch and	8.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.		
	PLUMBING & SANITARY FITTINGS		
33	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lidProviding and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
34	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
35	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
36	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	6.00	Each
37	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
38	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
39	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	15.00	M

Sl.No	DESCRIPTION	QTY	UNIT
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
41	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	15.00	M
42	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
43	Flexible pipe 32 mm dia	1.00	Each
44	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
45	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
46	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
	SIGNAGES		
47	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	6.00	Each
48	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame., 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point
1.02	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. 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.Group C	10.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	65.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	90.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth	15.00	Metre

SN	DESCRIPTION	QTY	UNIT
	wire		
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	5.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	12.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	14.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	14.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	7.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each

SN	DESCRIPTION	QTY	UNIT
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.04	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. Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required. (for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	70.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	15.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	80.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each

SN	DESCRIPTION	QTY	UNIT
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	12.00	Each
11.02	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	4.00	Each

22. CH CHOPAL, SHIMLA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick works
 - Tile works
 - Doors and windows
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium doors and partition considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING & DEMOLITION WORKS		
1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	2.00	Each
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	49.80	Sqm
3	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	1.10	Cum
4	Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead : Of sectional area below 40 square centimetres	9.10	m
	PLASTERING		
5	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	20.00	Sqm
6	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	15.00	Sqm
	DOORS & WINDOWS		
7	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	14.00	Each
8	Providing and fixing aluminium handles, 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:125 mm	14.00	Each
9	Providing and fixing aluminium hanging floor door	7.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	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		
10	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	7.00	Each
11	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	12.50	Sqm
	TILE WORK		
12	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	49.80	Sqm
13	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	11.10	Sqm
	PAINTING		
14	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	160.2	Sqm
15	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	171.30	Sqm
16	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	17.40	Sqm
17	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	37.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	ALUMINIUM WORKS		
18	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	118.60	KG
19	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	40.80	KG
20	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	43.70	Sqm
21	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	6.00	Each
22	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	1.50	Sqm
	PLUMBING & SANITARY FITTINGS		
23	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
24	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction	5.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall		
25	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
26	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
27	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete: 20 mm nominal bore	1.00	Each
28	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
29	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
30	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	15.00	M
31	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes	20.00	M
32	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
33	Providing and fixing uplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	1.00	Each
34	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.		
35	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
36	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
37	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
38	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.
2. Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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. Group B	4.00	Point
1.02	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. 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. Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	1.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X1.5 sq.mm + 1X1.5 sq.mm earth wire	45.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X2.5 sq.mm + 1 X2.5 sq mm earth wire	65.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre

SN	DESCRIPTION	QTY	UNIT
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	9.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	9.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	7.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	7.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each

SN	DESCRIPTION	QTY	UNIT
6.04	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.05	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	6.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	9.00	Each
11.02	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each



SN	DESCRIPTION	QTY	UNIT
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each

23. CH KOTKHAI, SHIMLA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick works
 - Tile works
 - Toilet fittings
 - Doors
2. Masonry works: Using bricks of class designation 7.5 for full brick
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Doors
 - Aluminium doors and partition considered.
 - UPVC door frames and PVC door shutters are considered for toilets.
5. Tile Works
 - Patch work in Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
6. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
7. Necessary plumbing and sanitary fittings as per drawing.
8. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	1.30	Cum
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	1.60	Sqm
3	Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead Thickness above 10 mm up to 25 mm	5.80	Sqm
4	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below	1.00	each
5	Dismantling of wash basin/ Sink, closing the pipeline with end cap if necessary, including stacking of useful materials near the site and disposal of	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	unserviceable materials within 50 metres lead		
6	Dismantling of plumbing pipe lines of 15mm dia to 110mm dia pipes, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per the direction of engineer in-charge.	15.00	Metre
7	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in Charge	1.00	Each
8	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	1.00	Each
	MASONRY WORK		
9	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 : 6 coarse sand)	0.20	Cum
10	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level: Cement mortar 1:4 (1 cement :4 coarse sand)	4.80	Cum
	PLASTERING		
10	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	33.10	Sqm
	DOORS & WINDOWS		
11	Providing and fixing to existing door frames 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).	1.50	sqm
12	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall	4.90	M

Sl.No	DESCRIPTION	QTY	UNIT
	dimension as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm		
13	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 150x10 mm	10.00	Each
14	Providing and fixing aluminium handles, 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: 125 mm	10.00	Each
15	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	4.00	Each
16	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	4.00	Each
17	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete: 100x10 mm	2.00	Each
18	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	2.30	sqm
TILE WORK			
19	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming	10.40	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm		
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	10.30	Sqm
21	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	1.60	Sqm
22	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	10.00	Sqm
23	Cleaning wall and floor tiles using acid as per direction of Engineer- in - charge	12.39	SQM
	PAINTING		
24	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	12.40	Sqm
25	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	107.70	Sqm
26	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	108.60	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
27	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	6.60	Sqm
28	Melamine polishing on wood work (one or more coat)	13.70	Sqm
29	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	23.90	Sqm
	ALUMINIUM WORKS		
30	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	94.60	KG
31	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	62.50	KG
32	Providing and fixing glazing in aluminium door,	5.50	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)		
33	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge.Pre-laminated particle board with decorative lamination on both side	38.00	Sqm
34	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	4.60	Sqm
35	Providing and fixing aluminium handles, 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 : 100mm	12.00	Each
36	Providing and Fixing Aluminium Double U channels of required size for sliding doors	1.00	M
	PLUMBING & SANITARY FITTINGS		
37	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lidProviding and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid	1.00	Each
38	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash	2.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps		
39	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
40	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	5.00	Each
41	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
42	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
43	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
44	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
45	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	20.00	M
46	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	10.00	M
47	Flexible pipe 32 mm dia	2.00	Each
48	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and	2.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	colour.Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms		
49	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	2.00	Each
50	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	2.00	Each
	SIGNAGES		
51	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the direction of Engineer in charge.	5.00	Each
52	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame., 5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

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1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	4.00	Point
1.02	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. 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.Group C	4.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	35.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	45.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X4 sq.mm + 1X4 sq.mm earth wire	15.00	Metre

SN	DESCRIPTION	QTY	UNIT
2.04	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required 2X6 sq.mm + 1X6 sq.mm earth wire	10.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 2 module	2.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	3.00	Each
4.03	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	8.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	8.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	5.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	5.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator) 16 way, Double door	2.00	Each

SN	DESCRIPTION	QTY	UNIT
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.04	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. Single pole	24.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor (10 SWG)	60.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	30.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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	4.00	Each

SN	DESCRIPTION	QTY	UNIT
	1.1 KV grade as required. 2X 10sq. mm (28mm)		
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	8.00	Each
11.02	SITC of EXHAUST FAN, SHUTTER TYPE white colour, 9" or 10"-5star rated as per BEE complete with its all accessories including mounting accessories	1.00	Each
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2.00	Each

24. PHC DHAGERA, SIRMOUR DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Brick works
 - Tile works
2. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
3. Doors
 - Aluminium doors and partition considered.
4. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
5. Painting
 - Necessary scrapping considered
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
6. Necessary plumbing and sanitary fittings as per estimate.
7. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
DISMANTLING & DEMOLITION WORKS			
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	81.40	Sqm
2	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.30	Cum
3	Dismantling of wash basin/ Sink, closing the pipeline with end cap if necessary, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead	2.00	Each
4	Dismantling of plumbing pipe lines of 15mm dia to 110mm dia pipes, including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per the direction of engineer in-charge.	15.00	Metre
5	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material with in 50 metres lead as per direction of Engineer -in-Charge.	0.20	cum
PLASTERING			
6	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	50.00	Sqm
7	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	15.00	Sqm
DOORS & WINDOWS			
8	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	4.00	Each
9	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as	4.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:125 mm		
10	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	2.00	Each
11	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	2.00	Each
12	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyster/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	2.80	Sqm
	TILE WORK		
13	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	30.00	Sqm
14	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	55.50	Sqm
	PAINTING		
15	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	64.7	Sqm
16	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	64.70	Sqm
17	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	7.50	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
18	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	24.00	Sqm
	ALUMINIUM WORKS		
19	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	37.90	KG
20	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)	12.40	KG
21	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	11.00	Sqm
22	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.00	Each
23	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	1.60	Sqm
24	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	1.10	Sqm
25	Providing and fixing aluminium handles, ISI marked,	3.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	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 : 75mm		
	PLUMBING & SANITARY FITTINGS		
26	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
27	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	5.00	M
28	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	3.00	Each
29	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe32 mm dia	1.00	Each
30	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
31	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
32	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
33	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes	20.00	M
34	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting	20.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wall 32 mm nominal dia Pipes		
35	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work-Exposed on wall	5.00	M
36	Providing and fixing uplasticised PVC connection pipe with brass unions:45 cm length15 mm nominal bore	2.00	Each
37	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	Each
38	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.	1.00	Each
39	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.	1.00	Each
	SIGNAGES		
40	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	4.00	Each
41	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16Guage) for Frame (Size proportional), Primer Paint & Black Painted Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.	1.30	Sqm

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.

3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	2.00	Point
1.02	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. 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.Group C	6.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	2.00	Point
2.00	WIRING THROUGH PVC CONDUIT		

SN	DESCRIPTION	QTY	UNIT
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X1.5 sq.mm + 1X1.5 sq.mm earth wire	40.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X2.5 sq.mm + 1 X2.5 sq mm earth wire	55.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required. 2X6 sq.mm + 1X6 sq.mm earth wire	12.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required. 6 module	5.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	8.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	8.00	Each
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	6.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	6.00	Each
6.00	DB AND ITS ACCESSORIES		

SN	DESCRIPTION	QTY	UNIT
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.04	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.Single pole	20.00	Each
6.05	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.06	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.07	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	30.00	Metre
8.00	SUPPLY OF LT CABLES		
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (part 1) ammended upto date 2X10sqmm	30.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm	30.00	Metre

SN	DESCRIPTION	QTY	UNIT
	thick saddle)		
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	7.00	Each
11.02	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each

25. CH AMB, UNA DISTRICT

Scope of civil works of the proposed project

1. Dismantling:
 - Windows
 - Tile works
2. Masonry works: Using AAC block as per drawing
3. 12 mm thick patch plastering in CM 1:4 for walls and 6mm plaster for soffit portions.
4. Doors
 - UPVC door frames and PVC door shutters are considered for toilets.
 - Aluminium doors and partition also considered.
5. Windows and Ventilators
 - Necessary Aluminums windows are proposed as per drawing
 - 4mm thick float glass panes are considered
6. Tile Works
 - Vitrified tiles of size 600*600 mm is considered for floor tiles and wall tiles
 - Ceramic glazed of size 300*300mm tiles used for toilet floor and wall
7. Painting
 - Putty work considered for new interior walls
 - Deluxe multi surface paint considered for entire internal walls
 - Deluxe multi surface paint for steel and wooden surfaces
8. Necessary plumbing and sanitary fittings as per estimate.
9. Necessary signage boards provided

Civil Estimate

Sl.No	DESCRIPTION	QTY	UNIT
	DISMANTLING AND DEMOLISHING		
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	0.70	Cum
2	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	84.50	Sqm
3	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineerin-charge.	3.20	Each
	MASONRY WORK		
4	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry 100 mm/ 125 mm thick with Grade-1 AAC blocks of density 551 to 650kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing	4.10	Cum

Sl.No	DESCRIPTION	QTY	UNIT
	and placing in position 2 Nos 6 mm dia M.S.bars at every third course of masonry work.		
5	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150 mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	0.60	Cum
	RCC WORK		
6	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.2	Cum
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	16	Kg
	FORMWORK		
8	Centering and shuttering including strutting, propping etc. and removal of form for: 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers	3.6	Sqm
	PLASTERING		
9	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand)	100.8	Sqm
	DOORS & WINDOWS		
10	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:150x10 mm	14.00	Each
11	Providing and fixing aluminium handles, 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:125 mm	14.00	Each
12	Providing and fixing aluminium hanging floor door stopper, ISI marked,anodised(anodic coating not less than grade AC 10 as per	7.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	IS:1868)transparent or dyed to required colour and shade, with necessary screws etc. complete.Twin rubber stopper		
13	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	8.00	Each
14	Providing and fixing aluminium tower bolts, ISI marked, anodised(anodic coating not less than grade AC 10 as per : 1868), transparent or dyed to required colour or shade, with necessary screws complete:100x10 mm	2.00	Each
15	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm) with double speed adjustment with necessary accessories and screws etc. complete.	7.00	Each
16	Providing and fixing to existing door frames24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge(For W.C. and bathroom door shutter).	1.70	sqm
17	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below	5.00	Metre

Sl.No	DESCRIPTION	QTY	UNIT
	(tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 x 19 mm and 1 mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge Extruded section profile size 48x40 mm		
18	Providing and fixing of vertical/roller blinds width 100 mm regular quantity made from 100 % polyester/Fibre yarn coated with fade resistant polymer to ensure complete opaquety with zero light transmittance, having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instruction of Engineer in-charge and as per site conditions. The colour will be approved by the competent authority Make-MAC/VISTA/NOVA or any equivalent make.	9.50	sqm
	TILE WORK		
19	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	52.20	Sqm
20	Providing and laying vitrified floor tiles in different sizes (thickness to be 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	78.80	Sqm
21	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @	9.00	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.		
22	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	3.10	Sqm
	PAINTING		
23	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	76.50	Sqm
24	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm	377.70	Sqm
25	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	333.40	Sqm
	ALUMINIUM WORKS		
26	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	93.10	KG
27	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS:	46.80	KG

Sl.No	DESCRIPTION	QTY	UNIT
	1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required 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 / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately Powder coated aluminium (minimum thickness of powder coating 50 micron)		
28	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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): With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	1.10	Sqm
29	Providing and fixing 12 mm thick prelaminate particle board flat pressed three layer or graded wood particle board conforming to IS:12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer in-charge. Pre-laminated particle board with decorative lamination on both side	40.80	Sqm
30	Providing and fixing glazing in door, window, ventilator shutters and partitions etc. with EPDM rubber /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): toughened glass of 6 mm thickness.	5.30	Sqm
31	Providing and fixing aluminium handles, 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 : 100mm	3.00	Each
	PLUMBING & SANITARY FITTINGS		
32	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C.	1.00	Each

Sl.No	DESCRIPTION	QTY	UNIT
	flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lidProviding and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:W.C. pan with ISI marked white solid plastic seat and lid		
33	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400mm with a pair of 15 mm C.P. brass pillar taps	1.00	Each
34	Supplying and fixing CP Health Faucet superior quality (Jagur or equivalent make) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge	1.00	Each
35	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 :15mm nominal bore	8.00	Each
36	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:20 mm nominal bore	1.00	Each
37	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690gms. 15 mm nominal bore	1.00	Each
38	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	20.00	M
39	Providing and fixing Chlorinated Polyvinyl	20.00	M

Sl.No	DESCRIPTION	QTY	UNIT
	Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal outer dia Pipes		
40	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 50 mm dia 10Kgf/cm ² - External work - Exposed on wall	10.00	M
41	Providing and fixing PVC pipes including fixing the pipe with clamps/ clips/ at 1.00 m spacing . This includes jointing of pipes with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 110 mm dia 6 Kgf/cm ² - External work- Exposed on wall	5.00	M
42	Flexible pipe 32 mm dia	1.00	Each
43	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 31 mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	1.00	Each
44	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 31 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the center of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1.00	Each
45	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete. Semi rigid pipe 32 mm dia	1.00	Each
	SIGNAGES		
46	Design, providing and fixing Digital Printed vinyl signage boards with transparent 3mm acrylic Sheet with 4 nos. SS Studs of Size 16" x 10". Complete as per the per the direction of Engineer in charge.	5.00	Each
47	NAME BOARD ACP SHEET WITH MULTIWOOD LETTERING :Design, Supplying and fixing Name Board as per the technical specifications given -1 Inch GI pipe frame (16 Gauge) for Frame (Size proportional), Primer Paint & Black Painted	1.30	Sqm

Sl.No	DESCRIPTION	QTY	UNIT
	Pipes for Frame.,5mm ACP sheets (Aluminum Composite Panel) for Box area, 18mm thick Multi wood Lettering for Name Board as approved by Engineer in charge. For Measurement purpose, only area of ACP sheet to be measured.		

Scope of Electrical Work

The purpose of electrical works adopted by HLL is to meet the power requirement for any equipment / electrical amenities/Load supplied by HLL Lifecare Ltd.

HLL will undertake the following roles and responsibilities for electrical power distribution / Energization on proposed works:

1. Pointing and wiring every electrical point with suitable gauge electric wires made up of PVC FRLS insulated cables recognized by government of INDIA for power transmission.
2. Providing and fixing energy efficient lighting equipment.
3. Providing and fixing wall fan/ceiling fan/exhaust fan with all the accessories and consumes 60W per hour with 1200mm blades (1200 mm for ceiling & 400mm for wall fan) and air span of 6 ft (wall fan).
4. Providing and fixing modular type, 5/15 amps switch and sockets in PVC/ metal boxes as decided by the HLL-electrical engineer or concerned Engineer.
5. Providing suitable earthing to the proposed building construction as decided by the HLL-electrical engineer which could maintain the required earthing levels specified in NEC 250 (earthing for buildings). (AS PER CPWD Specifications)
6. Providing and fixing suitable power/light distribution boxes as decided by the HLL Electrical Engineer for proper power channeling, which includes tertiary level circuit protection using, MCB's, ISOLATORS, RCCB, RCBO as required.
7. LT Cable laying and its termination is also proposed in this estimate.

NB: 1. Incoming supply for the facility should be provided from hospital authorities.

2.Vertical Distribution Boards, ELV system and Air conditioning systems are not considered in this estimate due to budgetary constraints.

Electrical Estimate

SN	DESCRIPTION	QTY	UNIT
1.00	POINT WIRING		
1.01	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. 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.Group B	5.00	Point

SN	DESCRIPTION	QTY	UNIT
1.02	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. 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.Group C	9.00	Point
1.03	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.Group C	3.00	Point
2.00	WIRING THROUGH PVC CONDUIT		
2.01	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.2X1.5 sq.mm + 1X1.5 sq.mm earth wire	65.00	Metre
2.02	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X2.5 sq.mm + 1 X2.5 sq mm earth wire	85.00	Metre
2.03	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required2X6 sq.mm + 1X6 sq.mm earth wire	15.00	Metre
3.00	MODULAR TYPE BLANKING PLATE		
3.01	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	2.00	Each
4.00	MODULAR BOXES AND PLATE		
4.01	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.3 module	4.00	Each
4.02	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.6 module	9.00	Each
5.00	MODULAR TYPE SWITCH/SOCKET		
5.01	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 5/6 Amps switch	13.00	Each
5.02	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 3 pin 5/6 Amp socket outlet	13.00	Each

SN	DESCRIPTION	QTY	UNIT
5.03	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 15/16 Amps switch	8.00	Each
5.04	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. 6pin 15/16 Amps (universal) socket outlet	8.00	Each
6.00	DB AND ITS ACCESSORIES		
6.01	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 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. (But without MCB/RCCB/Isolator)16 way , Double door	2.00	Each
6.02	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 A	1.00	Each
6.03	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current breaker with overload (RCBO), having a sensitivity current 100 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required up to 25A, 2P, 100mA	2.00	Each
6.04	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. Triple pole	1.00	Each
6.05	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.Single pole	20.00	Each
6.06	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	4.00	Each
6.07	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve DP Isolator complete with connections, testing and commissioning etc. as required.(for UPS IN AND OUT)	2.00	Each
6.08	Supplying and fixing FP sheet steel enclosure on surface/ recess along with 25 amps 415 volts "C" curve FP Isolator complete with connections, testing and commissioning etc. as required.	1.00	Each
7.00	EARTHING		
7.01	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	0.50	Metre
7.02	Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	70.00	Metre
8.00	SUPPLY OF LT CABLES		

SN	DESCRIPTION	QTY	UNIT
8.01	Supply of the following size 1.1kV grade XLPE insulated PVC sheathed, armoured Aluminium conductor power cable confirming to IS 7098 (part 1) ammended upto date 2X10sqmm	35.00	Meter
9.00	CABLE LAYING		
9.01	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.Upto 35 sq. mm (clamped with 1mm thick saddle)	35.00	Metre
10.00	LT CABLE TERMINATION		
10.01	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. 2X 10sq. mm (28mm)	4.00	Each
11.00	LIGHT FITTINGS & FANS		
11.01	SITC of surface mounted, extruded aluminium with powder coated housing, frosted PMMA / PC diffuser, 20-24 W LED light fixture (4 feet) , p.f 0.9, THD < 15%, 2.5kV surge protection, CCT 6500K , Efficacy 100 Lm/W, CRI 80 etc with all required accessories.	13.00	Each
11.02	SITC of EXHAUST FAN,SHUTTER TYPE white colour, 9" or 10"-5starrated as per BEE complete with its all accessories including mounting accessories	1.00	Each
11.03	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	3.00	Each

SECTION G
FORMS AND DECLARATION

1. FINANCIAL STATEMENT

Name & Address of bidder:

Financial Year	Annual Turnover (In Rs.)
2022-2023	
2023-2024	
2024-2025	
Total annual turnover for the 3 financial years	
Average annual turnover for the 3 financial years	

Note: Enclose audited balance sheets, profit & loss statement and IT return for the above period duly certified by a Chartered Accountant as proof.

We hereby declare that the above Turnover figures are based on the audited financial statements of the firm.

Signature and stamp of Chartered Accountant	Signature and stamp of the bidder

2. PERFORMANCE STATEMENT

(For the period of last three years)

Tender Reference No. : _____

Date of opening : _____

Order cross reference No. : _____

Name and address of Purchaser : _____

Country of origin, Name and address
Of the manufacturer/bidder : _____

Order placed by (full address of Purchaser)	Order number and date	Description and quantity of ordered goods and services	Value of order (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily
				As per contract	Actual		
1	2	3	4	5	6	7	8

Date:

Signature and seal of the Purchaser

NB: Satisfactory performance certificate from clients to be enclosed

3. CATEGORY DETAILS OF ORGANIZATION

SL No.	Description	Yes/No
1.	*Whether the organization belongs to the MSME category	
2.	*If yes whether the organization belongs to MSE category	
3.	*Whether the MSE organization belongs to SC/ST entrepreneur.	
4.	*Whether the MSE organization belongs to woman entrepreneur.	

*Kindly furnish the copies of documents supporting your above claim along with this Annexure duly filled.

*The Udyam no of the bidder

(Self-attested copy of Udyam Registration certificate should be submitted along with the technical bid)

Date:

Signature of the Bidder:

Place:

Name with seal:

Designation:

Address:

4. SELF DECLARATION – MAKE IN INDIA PREFERENCE

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II dt. 15.06.2017 as amended from time to time and as applicable on the date of submission of tender, we hereby certify that we M/s_____ (supplier name) are local supplier meeting the requirement of minimum Local content (50%) as defined in above orders for the material _____ against _____ Tender _____ No _____

Details of location at which local value addition will be made is as follows: -----

----- We also understand, false declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rule for which for which a bidder or its successors can be debarred for up two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and Signature of Authorized Signatory

5. COMPLIANCE TO RULE 144 (XI) OF GFR 2017

I. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services or works (including turnkey projects) only if the bidder is registered with the Competent Authority. Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also require to be registered with the same competent authority.

II. "Bidder (or entity) from a country which shares a land border with India" for the purpose of this Order means: -

- (a) An entity incorporated, established, or registered in such a country; or
- (b) A subsidiary of an entity incorporated, established, or registered in such a country; or
- (c) An entity substantially controlled through entities incorporated, established, or registered in such a country; or
- (d) An entity whose beneficial owner is situated in such a country; or
- (e) An Indian (or other) agent of such an entity; or
- (f) A natural person who is a citizen of such a country; or
- (g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above

SELF DECLARATION TO COMPLIANCE TO RULE 144 (XI) OF GFR 2017

I, the undersigned, ...(full names), do hereby declare, in my capacity as
M/s. (name of bidder entity), that:

1. The facts contained herein are within my own personal knowledge.
2. I have read the Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a landborder with India and comply to all the provisions of the Order. I hereby understand as a bidder (including bidder from India) that having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, shall also be required to be registered with the same competent authority.
3. I certify that M/s (name of bidder entity) is not from such a country or, is from such a country (strike out whichever is not applicable), has been registered with the Competent Authority. I hereby certify that the bidder and Manufacturer fulfills all requirements in this regard and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority is attached]
4. I understand that the submission of incorrect data and / or if certificate / declaration given by M/s(name of bidder entity) is found to be false, this would be a ground for immediate termination and further legal action in accordance with law as per Clause 12 of the Public Order on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017

AUTHORISED SIGNATURE:**DATE:****Seal / Stamp of Bidder**

This declaration form part of this tender & it contains general information and serves as a declaration form for all bidders. (Before completing this declaration, bidders must study the General Conditions, Definitions, Govt Directives applicable in respect of Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 on Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017& prescribed tender conditions).

6. REQUISITION FORM FOR E-PAYMENT
(In the company letter with sign & seal)

Certified that I am having a Savings / Current Account in <Name of Bank> ----- at <Name of Branch> _____ with <IFSC Code> _____. The Account Number is: _

I wish to receive all payments in this account through NEFT and RTGS systems, as the case may be, for all payments relating to this work.

Name of Bidder

Place: _____

Date: _

(Attach Scanned copy of Cancelled cheque of above bank)

7. SELF-DECLARATION NON BLACK LISTED

To,

Vice President (PS) & GH (HCS)
HLL Lifecare Limited
Corporate Head Office, Poojappura.P. O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573
Website – www.lifecarehll.com
E Mail - sdrbdsouth@lifecarehll.com

Dear Sir,

This is to certify that our company has not been Black Listed /debarred or found guilty of malpractice /misconduct either by State Government or /Government of India or any other Government institution in connection with manufacture and supply of any of the product(s) quoted during the last 5 years' period till the due date of submission of BID as specified in the subject BID If we, at a later date, are found guilty of suppressing facts in this regard, such act on our part shall be considered a fraudulent practice in accordance with the Instructions to Bidders and the Purchaser shall be entitled to reject our BID for the de-registered or debarred or blacklisted or banned / suspended product quoted, submitted by us against this Tender.

Date:

Signature:

Place:

Name:

Designation:

Seal:

8. NO DEVIATION CERTIFICATE

To

Vice President (PS) & GH (HCS)
HLL Lifecare Limited
Corporate Head Office, Poojappura.P. O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573
Website – www.lifecarehll.com
E Mail - sdrbdsouth@lifecarehll.com

Subject: No Deviation Certificate for Setting up of Dialysis Centres on Turnkey Basis in Himachal Pradesh.

Tender Ref.No. HLL/PSD/2026-27/TENDER/51 Dt 06.08.2026

Dear Sir,

With reference to above this is to confirm that as per Tender conditions we have visited site before submission of our Offer and noted the job content and site condition etc. We also confirm that we have not changed/modified the above tender document and in case of observance of the same at any stage it shall be treated as null and void.

We hereby also confirm that we have not taken any deviation from Tender Clause together with other reference as enumerated in the above referred Notice Inviting Tender and we hereby convey our unconditional acceptance to all terms & conditions as stipulated in the Tender Document.

In the event of observance of any deviation in any part of our offer at a later date whether implicit or explicit, the deviations shall stand null and void.

Yours faithfully,

Date:

(Signature, name and designation
of the Authorized signatory)

Name and seal of Bidder

Note: In case of Association, the Associate Bidder shall also submit the Form

9. ACCEPTANCE FORM

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

From

To

HLL Lifecare Limited
Corporate Head Office, Poojappura.P. O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573
Website – www.lifecarehll.com
E Mail - sdrbdsouth@lifecarehll.com

Tender Ref.No. HLL/PSD/2026-27/TENDER/51 dated. 06.08.2026

We, the undersigned have examined the above mentioned Tender document, including amendment/corrigendum No._____, dated_____(if any), the receipt of which is hereby confirmed. We now offer to supply and deliver (Description of goods and services) in conformity with your above referred document, as shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - D – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the ITB clause 8.5, or for subsequently extended period, if any, agreed to by us. We hereby confirm to abide by this tender including all conditions under General Conditions of Contract (GCC) and Special Conditions of the Contract of this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities. We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

Yours faithfully,

SIGNATURE OF THE BIDDER WITH SEAL

10. COMPLETION PERIOD

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

The Setting up of Dialysis Centres on Turnkey Basis in Himachal Pradesh shall be completed within a period of 90 Days from the date of Letter of Intent/Work Order or Site Clearance (whichever is later), irrespective to the number of sites awarded.

SIGNATURE OF THE BIDDER WITH SEAL

SECTION H
MAKE/MODEL/HSN CODE OF EQUIPMENTS

SI No	Name of the Equipments	Total Qty	Quoted (Yes/No)	Make	Model	HSN CODE
1	ICU Bed(Manual 4 section with Matress)	49				
2	BEDSIDE LOCKER	49				
3	OVERBED TABLE	49				
4	IV STAND WITH SS ROD AND CASTOR BASE	49				
5	HEMO DIALYSIS MACHINE	49				
6	RO PLANT SYSTEM -500LPH	19				
7	RO PLANT SYSTEM-250 LPH	6				
8	DIALYSIS REPROCESSOR	25				
9	MULTI PARA MONITOR	49				
10	SYRINGE PUMP	49				
11	LARYNGOSCOPE	25				
12	THERMOMETER- INFRARED TYPE	25				
13	AMBU BAG ADULT	25				
14	ELECTRONIC WEIGHING SCALE- ADULT	25				
15	WHEEL CHAIR - FOLDABLE	25				
16	CRASH CART	25				
17	DRESSING TROLLEY	25				
18	DRUG TROLLEY/MEDICINE CART	25				
19	GLUCOMETER	25				
20	STETHOSCOPE	25				
21	BICARB MIXER	25				
22	Scrub Station(SS with Tap)	25				
23	Infrastructure Work (Civil, Electrical, Plumbing etc.) as per the scope of work mentioned in tendr	1				

SECTION – I

A) MANUFACTURER'S AUTHORISATION FORM

To

Vice President (PS) & GH (HCS)
HLL Lifecare Limited
Corporate Head Office, Poojappura.P. O,
Thiruvananthapuram – 695012, Kerala, India
Phone: 0471- 2775600, 2775573
Website – www.lifecarehll.com
E Mail - sdrbdsouth@lifecarehll.com

Dear Sir,

Tender Ref. No. HLL/PSD/2026-27/TENDER/51 dated 06.08.2026

We, _____ who are proven and reputable manufacturers of _____
(name and description of the goods offered in the tender) having factories at _____,
hereby authorize Messrs _____ (name and address of the agent) to submit a
tender, process the same further and enter into a contract with you against your requirement as
contained in the above referred TE documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs.

_____ (name and address of the above agent) is authorized to submit a
tender, process the same further and enter into a contract with you against your requirement as
contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CAMC as applicable as per clause 15 of the General
Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the
goods and services offered for supply by the above firm against this TE document.

Yours faithfully,

[Signature with date, name and designation] for and on behalf of
Messrs

[Name & address of the manufacturer]

Note: This letter of authorization should be on the letter head of the manufacturing firm and should
be signed by a person competent and having the power of attorney to legally bind the Manufacturer.

CONSORTIUM AGREEMENT
(In Rs. 100 Non Judicial Stamp Paper)

This Consortium agreement (hereinafter referred as “Agreement”) is entered on this the day of, 20 _____ by and between;

M/s. _____ having its registered office at _____, incorporated as company under companies Act 1956 (hereinafter referred as “Lead Partner”) which the expression shall unless otherwise include all its successors and permitted assigns and represented by _____ in the capacity of _____ of the FIRSTPART.

AND

M/s. _____ having its registered office at _____, incorporated as company under companies Act 1956 (hereinafter referred as “Second Partner”) which the expression shall unless otherwise include all its successors and permitted assigns and represented by _____ in the capacity of _____ of the SECOND PART.

For the purpose of this Agreement both the “Lead Partner” as well as “Second Partner” are collectively called “Partners” and individually called “Partner”.

Whereas –

- a. HLL Lifecare Limited (Purchaser/HLL) has floated a tender vide Tender No: _____ for setting up of _____ on turnkey basis at _____.
- b. As per the Tender document, bids are to be submitted by any Consortium which will be considered; provided such bids fulfill all the specific requirements in that regard.
- c. Now the Parties to this Agreement decided to form a Consortium to participate in the Tender.
- d. AND WHEREAS the bid is being submitted based on the consortium agreement being these presents and the bid with its bid forms and submission documents in accordance with the requirement of tender document conditions and requirements have been signed by all the partners and submitted to HLL Lifecare Ltd.,

NOW THIS AGREEMENT WITNESSTH HEREIN AS FOLLOWS

1. That the Parties to this Consortium do hereby agrees to participate in the Tender in the name and style of “_” (hereinafter referred as “Consortium”).
2. **Scope:** Purpose of this Agreement is to participate and submit all necessary bid documents against the Tender floated by HLL and in case of award, supply the tendered items listed below as against each partner.

Sl. No.	List of Equipment	Qty in Nos

3. **Tenure:** This Agreement shall be valid till the date of either rejection of the Bid submitted by this Consortium against the Tender floated by the HLL or till the expiry of the Contract entered between the Consortium members and HLL in case of award of the Tender to this Consortium.

4. In consideration of the bid submission by us to HLL, pre-qualification of our technical bid by HLL if considered acceptable, submission of price bid by us and the award of contract by HLL to the Consortium (if selected by), we the partners to the Consortium, hereby agree that M/s shall act as the Lead Partner for self, and for and on behalf of Partner – II and further declare and confirm that shall be solely bound to HLL for execution of the contract in accordance with the contract terms and shall perform all contractual obligations including technical guarantees. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the Consortium.

5. The Lead Partner shall be solely responsible for Management of all the works to be undertaken under the tender and it shall be the nodal point for HLL for queries, purchase orders, installation and payments.

6. In case of any breach of the said Contract by any of the partners of the Consortium, we hereby agree to be fully responsible for the successful execution/ performance of the Contract in accordance with the terms of the Contract.

7. Further, if HLL suffers any loss or damage on account of any breach of the Contract or any shortfall in the completed work meeting the guaranteed performance parameters as per the technical specifications/ contract documents, the Lead Partner under takes to promptly make good such loss or damage caused to HLL, on HLL's demand without any demure. HLL shall have the right to proceed against.

8. The financial liability of the partners to this Consortium Agreement, to HLL with respect to the any or all claims arising out of the performance or non-performance of the Contract shall, however be not limited in any way so as to restrict or limit the liabilities of either of the partner.

9. It is expressly understood and agreed between the partners to this agreement that the responsibilities and obligations of each of the partners shall be as delineated in this agreement. It is further agreed by the partners that the above sharing of responsibilities and obligations shall not in any way be a limitation of the joint and several responsibilities of the partners under the Contract.

10. Obligations of the Second Partner

a. That, the Second Partner ensures the procurement and supply of the items listed above.

b. That, the Second Partner ensures to provide necessary training to the staffs employed in respective training centers operating under the provisions of the contract signed between the Consortium and HLL.

c. That, the Second Partner agrees to provide necessary repairers and replacements for supplied items, if any found defective during the tenure of the agreement between the Consortium and HLL. Provided such defects have incurred due to any breakage or manufacturing defect and must be pointed out by the Lead Partner to the Second Partner in writing within 3 days from the date of identification of such defect.

11. This Consortium Agreement shall be governed, construed and interpreted in accordance with Laws of India. Courts of Chennai shall have exclusive jurisdiction in all matters arising there under.

12. In case of award of contract, we the partners to this Consortium Agreement do hereby agree that we shall furnish the contract performance guarantee (if any) in favour of the HLL from a bank acceptable/ approved by HLL for a value as stipulated in the Contract Award.

13. It is further agreed that this Consortium Agreement shall be irrevocable and shall form an integral part of the Contract and shall continue to be enforceable till the Consortium members discharges the same. It shall be effective on the date first above mentioned for all purposes and intents.

IN WITNESS WHEREOF, the partners to this Consortium agreement have, through their respective authorized representatives, have executed these presents and affixed their hands and common seal of their respective companies on the day, month and year first abovementioned.

For M/s_____

For M/s_____

Authorized Signatory

Authorized Signatory

Witness 1:

2:

SECTION – J

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

(For the purpose of verification/confirmation of this Bank Guarantee by the Employer, the Bank shall indicate 2 official email ids of the authorized signatories from Issuing Branch and also of the designated higher office (Corporate Office, Zonal Office etc) in the covering letter of the Bank forwarding the Bank Guarantee.)

Bank Guarantee No.

Date.....

NOA/Contract No.....

.....[Name of Contract].....

To: [Name and address of the Employer]

Dear Ladies and/or Gentlemen,

We refer to the Contract ("the Contract") signed on(insert date of the Contract)..... between you and M/s (Name of Contractor),

(or)

vide notification of award issued on(insert date of the notification of award)..... by you to M/s (Name of Contractor)

having its Principal place of business at(Address of Contractor) and Registered Office at(Registered address of Contractor) ("the Contractor") concerning (Indicate brief scope of work) for the complete execution of the (insert name of Package alongwith name of the Project)..... [Applicable for Bank Guarantees issued by Contractor/Associate for those Contracts awarded to them]

Or

We refer to the Contract signed on(insert date of the Contract)..... between you and M/s (Name of Contractor),

(or)

vide notification of award issued on(insert date of the notification of award)..... by you to M/s (Name of Contractor)

having its Principal place of business at(Address of Contractor) and Registered Office at(Registered address of Contractor) ("the Contractor") and the Contract ("the Contract") signed on(insert date of the Contract)..... between you and M/s (Name of Associate), having its Principal place of business at(Address of Associate) and Registered Office at(Registered address of Associate), the Associate of the Contractor for executing the Facilities concerning (Indicate brief scope of work) for the complete execution of the (insert name of Package alongwith name of the Project)..... [Applicable for Bank Guarantees to be issued by Contractor against those Contracts awarded to their Associate]

By this letter we, the undersigned, ...(insert name & address of the issuing bank), a Bank (which expression shall include its successors, administrators, executors and assigns) organized under the laws of and having its Registered/Head Office at(insert address of registered office of the bank)..... do hereby irrevocably guarantee payment to you up to i.e., five percent (5%) of the Contract Price until sixty (60) days beyond the Defect Liability Period i.e., upto and inclusive of (dd/mm/yy).

We undertake to make payment under this Letter of Guarantee upon receipt by us of your first written

demand signed by your duly authorized officer declaring the Contractor to be in default under the Contract and without cavil or argument any sum or sums within the above named limits, without your need to prove or show grounds or reasons for your demand and without the right of the Contractor to dispute or question such demand.

Our liability under this Letter of Guarantee shall be to pay to you whichever is the lesser of the sum so requested or the amount then guaranteed hereunder in respect of any demand duly made hereunder prior to expiry of the Letter of Guarantee, without being entitled to inquire whether or not this payment is lawfully demanded.

This letter of Guarantee shall remain in full force and shall be valid from the date of issue until sixty (60) days beyond the Defect Liability Period of the Facilities i.e. upto and inclusive of (dd/mm/yy) and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s. on whose behalf this Letter of Guarantee has been given.

Except for the documents herein specified, no other documents or other action shall be required, notwithstanding any applicable law or regulation.

Our liability under this Letter of Guarantee shall become null and void immediately upon its expiry, whether it is returned or not, and no claim may be made hereunder after such expiry or after the aggregate of the sums paid by us to you shall equal the sums guaranteed hereunder, whichever is the earlier.

All notices to be given under shall be given by registered (airmail) posts to the addressee at the address herein set out or as otherwise advised by and between the parties hereto.

We hereby agree that any part of the Contract may be amended, renewed, extended, modified, compromised, released or discharged by mutual agreement between you and the Contractor, and this security may be exchanged or surrendered without in any way impairing or affecting our liabilities hereunder without notices to us and without the necessity for any additional endorsement, consent or guarantee by us, provided, however, that the sum guaranteed shall not be increased or decreased.

No action, event or condition which by any applicable law should operate to discharge us from liability hereunder shall have any effect and we hereby waive any right we may have to apply such law so that in all respects our liability hereunder shall be irrevocable and, except as stated herein, unconditional in all respects.

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed _____ (value in figures) [_____ (value in words)].

2. This Bank Guarantee shall be valid upto _____ (validity date).

3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only & only if we receive a written claim or demand on or before _____ (validity date) _____."

For and on behalf of the Bank

[Signature of the authorised signatory(ies)]

Signature _____

Name _____

Designation _____

Contact Number(s): Tel. _____ Mobile _____

Fax Number _____

email _____

Common Seal of the Bank _____

Witness:

Signature _____

Name _____

Address _____

Contact Number(s): Tel. _____ Mobile _____

email _____

Note :

1. For the purpose of executing the Bank Guarantee, the non-judicial stamp papers of appropriate value shall be purchased in the name of Bank who issues the 'Bank Guarantee'.

2. The Bank Guarantee shall be signed on all the pages by the Bank Authorities indicating their POA nos. and should invariably be witnessed.

3. **The Bank Guarantee should be in accordance with the proforma as provided. However, in case the issuing bank insists for additional paragraph regarding applicability of ICC publication No: 758, the following may be added at the end of the proforma of the Bank Guarantee [i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority(ies) of the Bank Guarantee]:**

“This Guarantee is subject to Uniform Rules for Demand Guarantee, ICC publication No. 758 except that article 15(a) is hereby excluded.”

4. At the time of issuance of the Bank Guarantee (including its extensions) through SFMS facility, the issuing bank will input the IFSC code of Beneficiary Bank as mentioned at GCC clause 9.4 in SCC in their Trade Finance Portal.

Additional paragraph regarding issuance of the Bank Guarantee through SFMS Platform (if applicable), the following should be added at the end of the proforma of the Bank Guarantee [i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority(ies) of the Bank Guarantee]:

“This Guarantee has been issued using SFMS Platform and the requisite communication in this regard has been forwarded to the Beneficiary Bank.”

7. BANK GUARANTEE FORM FOR ADVANCE PAYMENT

(For the purpose of verification/confirmation of this Bank Guarantee by the Employer, the Bank shall indicate 2 official email ids of the authorized signatories from Issuing Branch and also of the designated higher office (Corporate Office, Zonal Office etc) in the covering letter of the Bank forwarding the Bank Guarantee.)

Bank Guarantee No.

Date.....

NOA / Contract No.....

.....[Name of Contract].....

To: [Name and address of the Employer]

Dear Ladies and/or Gentlemen,

We refer to the Contract ("the Contract") vide Notification of Award issued on (insert date of the notification of award)....by you to M/s (Name of Contractor),

(OR)

signed on(insert date of the Contract)..... between you and M/s (Name of Contractor),

having its Principal place of business at(Address of Contractor) and
Registered Office at(Registered address of Contractor)
..... ("the Contractor") concerning
..... (Indicate brief scope of work) for the complete execution of the
..... (insert name of Package along with name of the Project).....

Whereas, in accordance with the terms of the said Contract, the Employer has agreed to pay or cause to be paid to the Contractor an interest bearing Advance Payment(s) against furnishing of an irrevocable bank guarantee for an amount of(Amount in figures and words)

By this letter we, the undersigned, ...(insert name & address of the issuing bank), a Bank (which expression shall include its successors, administrators, executors and assigns) organized under the laws of and having its Registered/Head Office at(insert address of registered office of the bank)..... do hereby irrevocably guarantee repayment of(Amount of the bank guarantee in figures and words)..... upon the first demand of the Employer without cavil or argument in the event that the Contractor fails to commence or fulfill its obligations under the terms of the said Contract for reasons whatsoever.

Provided always that the Bank's obligation shall be limited to the amount of this Bank guarantee or an amount equal to the outstanding balance of the Advance Payment(s) and the accrued interest on the Advance Payment(s), taking into account such amounts, which have been repaid by the Contractor from time to time in accordance with the terms of payment of the said Contract, as certified by you.

This Guarantee shall remain in full force from the date upon which the said Advance Payment(s) is received by the Contractor up to ninety (90) days beyond the date on which the entire Advance Payment(s) along with the accrued interest if any due thereon has been fully adjusted in terms of the Contract i.e., up to ninety (90) days beyond the date of Completion of the Facilities under the Contract. This Guarantee may be extended from time to time, as may be desired by M/s. on whose behalf this Guarantee has been issued.

Any claims to be made under this Guarantee must be received by the Bank during its period of validity, i.e. upto ninety (90) days beyond the date of Completion of the Facilities by the Employer i.e. upto and inclusive of (dd/mm/yy).



HLL Lifecare Limited

(A Government of India Enterprise)

Notwithstanding anything contained herein:



एचएलएल लाइफ़केयर लिमिटेड

स्वस्थ पीढ़ियों के लिए नवनिर्माण

1. Our liability under this Bank Guarantee shall not exceed _____ (value in figures) _____ (value in words) _____.
2. This Bank Guarantee shall be valid upto _____ (validity date) _____.
3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only & only if we receive a written claim or demand on or before _____ (validity date) _____.

For and on behalf of the Bank

[Signature of the authorised signatory(ies)]

Signature _____

Name _____

Designation _____

POA Number _____

Contact Number(s): Tel. _____ Mobile _____

Fax Number _____

email _____

Common Seal of the Bank _____

Witness:

Signature _____

Name _____

Address _____

Contact Number(s): Tel. _____ Mobile _____

email _____

Note:

1. For the purpose of executing the Bank Guarantee, the non-judicial stamp papers of appropriate value shall be purchased in the name of Bank who issues the 'Bank Guarantee'.

2. The Bank Guarantee shall be signed on all the pages by the Bank Authorities indicating their POA nos. and should invariably be witnessed.

3. The Bank Guarantee should be in accordance with the proforma as provided. However, in case the issuing bank insists for additional paragraph regarding applicability of ICC publication No: 758, the following may be added at the end of the proforma of the Bank Guarantee [*i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority(ies) of the Bank Guarantee*]:

“This Guarantee is subject to Uniform Rules for Demand Guarantee; ICC publication No. 758 except that article 15(a) is hereby excluded.”

4. At the time of issuance of the Bank Guarantee (including its extensions) through SFMS facility, the issuing bank will input the IFSC code of Beneficiary Bank as mentioned at GCC clause 9.4 in SCC in their Trade Finance Portal.

Additional paragraph regarding issuance of the Bank Guarantee through SFMS Platform (if applicable), the following should be added at the end of the proforma of the Bank Guarantee [*i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority(ies) of the Bank Guarantee*]:

“This Guarantee has been issued using SFMS Platform and the requisite communication in this regard has been forwarded to the Beneficiary Bank.”

Section-K

PRICE SCHEDULE

(In the letter of the company)

As per BoQ, to be uploaded in CPP Portal

IMPORTANT NOTE –

Items wise price to be uploaded in CPP in the same format (CPP BoQ) – Excel Upload Required in CPP / Finance Document

The bidders shall NOT QUOTE ANY PRICE along with TECHNICAL BID. The price shall only be quoted in CPP using the BoQ format.

Rate shall be offered separately for each item as per price schedule. Selection of bidder will be based on the lowest price quoted for all the items (Total value wise evaluation). The bidder should quote for all the items.

NOTE: -

- 1) Rate per unit excluding GST, GST% and including GST shall be quoted above in the price schedule.
- 2) In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.

Business Address_____

Place: _____

Date: _____

Signature of Bidder_____

Seal of the Bidder_____

Sl.No.	Name of the Equipment	2 nd Year (Amt in Rs.)	3 rd Year (Amt in Rs.)	4 th Year (Amt in Rs.)	5 th Year (Amt in Rs.)	6 th Year (Amt in Rs.)	7 th Year (Amt in Rs.)	8 th year (Amt in Rs.)	9 th Year Amt in Rs.)	10 th year (Amt in Rs.)

(In the letterhead of the company)

Shall not be included in the product price bid in CPP

****After completion of 1-year warranty / Warranty as mentioned in technical specifications.**

NOTE: -

- 1) The cost of CAMC which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 1 year on yearly basis for complete equipment and Turnkey.
- 2) The uptime warranty will be 95 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the document.
- 3) All software updates should be provided free of cost during CAMC period.
- 4) The stipulations in Technical Specification will supersede above provisions.
- 5) The supplier shall keep sufficient stock of spares required during Comprehensive Annual Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Business Address _____

Place: _____

Date: _____

Signature of Bidder _____

Seal of the Bidder _____

SECTION – L
CONTRACT FORM –

CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT

This AGREEMENT made on this day ----- between HLL Lifecare Ltd (HLL)/HLL's Client, represented by the----- having his Office at(hereinafter called HLL/) of one part and M/s.----- represented by ----- aged----- years, having his / her Office at----- (hereinafter called "") of the other part. (The term *HLL/HLL's Client* and-----, wherever the context appear and unless, it is specifically excluded, shall mean and exclude its successor, assign administrators and executors).

WHEREAS the----- had supplied and installed number----- at against the supply order placed by HLL vide P.O. No. _ and as per provisions of the tender and supply order ----- should provide Comprehensive Annual Maintenance Services for this equipment (herein after called services) and the purchaser accepted & approved the rates and terms and conditions offered by___in the financial bid for the services to which this agreement made for.

NOW THE AGREEMENT WITNESS AS FOLLOWS:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract / order referred to above.

2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:

a. The terms and conditions stipulated in *Purchaser's* tender document ref. _____, Dt. _____ for the supply of the equipment.

b. The Bid Form and Price Schedule submitted by___for supply and providing the maintenance Services, against the tender.

c. The supply order for supply and installation of the equipment vide Ref. No.____
Dt. ___Placed by Purchaser.

3. The Contract of Annual Comprehensive Maintenance is hereby concluded as under:

Sl. No.	Name of the Equipment	2 nd Year (Amt in Rs.)	3 rd Year (Amt in Rs.)	4 th Year (Amt in Rs.)	5 th Year (Amt in Rs.)	6 th Year (Amt in Rs.)	7 th Year (Amt in Rs.)	8 th year (Amt in Rs.)	9 th Year Amt in Rs.)	10 th year (Amt in Rs.)

4. Payments shall be made by HLL/HLL's Client to Supplier as per the Purchaser's tender document, _____ hereby covenant with the *Purchaser* to provide the Comprehensive Annual Maintenance Services in conformity in all respects with the provisions of the *Contract* and the orders referred above.

5. The rates indicated cover all charges towards cost of spare parts, transportation and installation charges, cost of travel, boarding, lodging and expenses related to service personnel and other expenses related to maintenance of the equipment. No claim whatsoever will be entertained.

6. It is agreed that the rates indicated hereunder will be firm during the contract period and the contract period is for 9 years from (date of expiry of 1 year warranty period)

7. Performance security shall be submitted by way of Bank Guarantee valid till [(fill the date) 2 months after expiry of entire CAMC period] for an amount of Rs. [(fill amount) equivalent to 3 % of the cost of the total CAMC value.

8. It is agreed that_____will provide preventive maintenance call at least one visit in four months

and the gap between any two Preventive Maintenance should not be less than 90 days and not more than 115 days and attend all breakdown calls, within the time limit prescribed in the tender. In addition, all breakdown calls shall be attended to immediately and all major repairs shall be rectified within 7 calendar days from the date of intimation, as per tender, failing which, a penalty of Rs.50,000/- per day thereof is leviable until the equipment is repaired and commissioned to the satisfaction of the end user, For this purpose you shall carry sufficient inventories to assure prompt replacement of defective parts as per tender.

9. It is agreed that the failure to attend to any breakdown calls within the prescribed time limit will attract penalty as stipulated in the CAMC order.

10. Uptime guarantee of 95% shall be maintained by _____ on annual basis taking into consideration the number of actual working hours and working days of the centre.

11. Purchaser reserves its rights to get the maintenance services done through any other agency at your full risk and cost and also to take appropriate penal action including termination of the contract, if the performance of services is found not satisfactory and below the 95% uptime level.

12. All disputes arising out of this agreement would be settled by arbitration by a sole arbitrator to be appointed by the CMD Of Purchaser

13. All disputes arising out of this agreement will be subjected to the jurisdiction of Chennai only.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

Said (For the HLL/HLL's Client)

in the presence of

Signed, Sealed and Delivered by the

Said (For _____)

in the presence of

SECTION – M

CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

The following store (s) has / have been received in good condition:

- (i) Contract No & date :_____
- (ii) Supplier's Name :_____
- (iii) Consignee's Name &Address with
telephone No.& Fax No. :_____
- (iv) Name of the item supplied :_____
- (v) Quantity Supplied :_____
- (vi) Date of Receipt by the Consignee:_____
- (vii) Name and designation of Authorized
Representative of Consignee :_____
- (viii) Signature of Authorized Representative of Consignee with
Date :_____
- (ix) Seal of the Consignee :_____

Proforma of Final Acceptance Certificate by the Consignee

Date _____

To

M/s

Project Name:

This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

(a) Contract No _____ dated _____

(b) Description of the equipment(s)/plants: _____

(c) Equipment(s)/plant(s)nos.: _____

(d) Quantity: _____

(e) Bill of Loading/Air Way Bill/Railway Receipt/Goods Consignment Note no _____ dated _____

(f) Name of the vessel/Transporter: _____

(g) Name of the Consignee: _____

(h) Date of commissioning and proving test: _____

Details of accessories/spares not yet supplied and recoveries to be made on that account.

Sl.	Description of Item	Quantity	Amount to be recovered	No.

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfill its contractual obligations with regard to the following:

- He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

- He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Purchaser in respect of the installation of the equipment(s)/plant(s).

The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para No.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is _____ (here indicate the amount).

Signature.

Name.

Designation with stamp.

Explanatory notes for filling up the certificate:

He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.

He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser in respect of the installation of the equipment(s)/plant(s).

Training of personnel has been done by the supplier as specified in the contract.

In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned.

SECTION O
UNDERTAKING LETTER

(Legally Authorized representatives from Supplier should sign/seal and submit along with
Technical Bid submission as a part of evaluation)

We hereby undertake and duly agree that, we have been intimated by M/s HLL Lifecare Limited and we are fully aware that the complete eligible payment as per contract milestone for those works executed / good supplied / services provided in relation to this tender notification No: **HLL/PSD/2026-27/TENDER/53**, Dt.**11.08.2026** will be received by us only upon receipt of payment by M/s HLL Lifecare Limited from the client and M/s HLL Lifecare Limited will not be held responsible for any delay.

Authorized Signatory Sign & Seal

SECTION P
CONSIGNEE ADDRESS

Sl. No.	Name of Hospital	Address
1	CH Ghumarwin	Civil Hospital Ghumarwin Sub Division Ghumarwin, District Bilaspur (H.P.) Pincode: 174021
2	CH Bharmour	Civil Hospital Bharmour P.O Bharmour District Chamba HP Pincode: 176315
3	CH Kihar	Civil Hospital Kilar P.O Kilar District Chamba HP Pincode: 176323
4	CH Bhoranj	Civil Hospital Bhoranj, District Hamirpur, HP. PIN 176045
5	CH Tauni Devi	Civil Hospital Tauni Devi, Hamirpur, HP. PIN 177023.
6	CH Sujanpur	Civil Hospital Sujanpur Tihra, Hamirpur, HP. PIN 176110
7	CH Barsar	Civil Hospital Barsar, Hamirpur, HP. PIN 174305
8	CH Nadaun	Civil Hospital Nadaun, Hamirpur, HP. PIN 177033.
9	CHC Dhaneta	Dhaneta Rd, Dhaneta, Himachal Pradesh 177041, India
10	CH Jaisinghpur	Buhare Da Baag, Harsi Pattan Road, Jaisinghpur, Kangra-176095, Himachal Pradesh
11	Ch Dehra	Civil Hospital - Dehra, Civil Hospital, SH 22, Dehra Gopipur, Kangra, Himachal
12	CH Dadasiba	Civil Hospital Dadasiba, Kangra, Himachal Pradesh - 176036.
13	CH Indora	Civil Hospital Indora, Kangra Himachal Pradesh Pincode 176401
14	CH Bagsaid	Civil Hospital Bagsaid, Tehsil Thunag, District Mandi, Himachal Pradesh-175035
15	CH Padhar	Civil Hospital Padhar, Tehsil Padhar, District Mandi, Himachal Pradesh-175012
16	CH Dharampur	Hospital Raod, Dharampur, Sarkaghat, Mandi Himachal Pradesh 175040
17	CH Junga	Junga, District Shimla Himachal Pradesh 171218
18	CH Theog	Civil Hospital - Theog is Civil Hospital, Theog, NH22, Shimla, Himachal Pradesh - 171209.
19	CH Chopal	Civil hospital, Chopal, Himachal Pradesh 171211
20	CH Kotkhai	Government Hospital Kotkhai Road; Kotkhai; Himachal Pradesh 171202
21	PHC Dhagera	Jaithal Kun Road, Nahan, Sirmaur District, Himachal Pradesh, 173022
22	CH Anni	Civil Hospital Anni, District Kullu Himachal Pradesh 172026
23	CH Amb	Civil Hospital Amb, Distt. Una H.P 177203
24	CH Chowri	Civil Hospital Chowari, Distt. Chamba, Himachal Pradesh, 176302
25	CH Tissa	Civil Hospital Tissa, Tissa, District Chamba Himachal Pradesh 176316

LIST OF REQUIREMENTS

Sl No	Name of the Equipments	CH Ghumarwin	CH Bharmour	CH Kihar	CH Bhoranj	CH Tauni	CH Sujapur	CH Barsar	CH Nadaun	CHC Dhaneta	CH Jaisinghpur	CH Dehra	CH Dadasiba	CH Indora
1	ICU Bed(Manual 4 section with Mattress)	2	2	1	3	2	2	3	2	1	2	3	2	2
2	BEDSIDE LOCKER	2	2	1	3	2	2	3	2	1	2	3	2	2
3	OVERBED TABLE	2	2	1	3	2	2	3	2	1	2	3	2	2
4	IV STAND WITH SS ROD AND CASTOR BASE	2	2	1	3	2	2	3	2	1	2	3	2	2
5	HEMO DIALYSIS MACHINE	2	2	1	3	2	2	3	2	1	2	3	2	2
6	RO PLANT SYSTEM -500LPH	1	1	0	1	1	1	1	1	0	1	1	1	1
7	RO PLANT SYSTEM-250 LPH	0	0	1	0	0	0	0	0	1	0	0	0	0
8	DIALYSIS REPROCESSOR	1	1	1	1	1	1	1	1	1	1	1	1	1
9	MULTI PARA MONITOR	2	2	1	3	2	2	3	2	1	2	3	2	2
10	SYRINGE PUMP	2	2	1	3	2	2	3	2	1	2	3	2	2
11	LARYNGOSCOPE	1	1	1	1	1	1	1	1	1	1	1	1	1
12	THERMOMETER- INFRARED TYPE	1	1	1	1	1	1	1	1	1	1	1	1	1
13	AMBU BAG ADULT	1	1	1	1	1	1	1	1	1	1	1	1	1
14	ELECTRONIC WEIGHING SCALE- ADULT	1	1	1	1	1	1	1	1	1	1	1	1	1
15	WHEEL CHAIR - FOLDABLE	1	1	1	1	1	1	1	1	1	1	1	1	1
16	CRASH CART	1	1	1	1	1	1	1	1	1	1	1	1	1
17	DRESSING TROLLEY	1	1	1	1	1	1	1	1	1	1	1	1	1
18	DRUG TROLLEY/MEDICINE CART	1	1	1	1	1	1	1	1	1	1	1	1	1
19	GLUCOMETER	1	1	1	1	1	1	1	1	1	1	1	1	1
20	STETHOSCOPE	1	1	1	1	1	1	1	1	1	1	1	1	1
21	BICARB MIXER	1	1	1	1	1	1	1	1	1	1	1	1	1
22	Scrub Station(SS-Two Tap)	1	1	1	1	1	1	1	1	1	1	1	1	1

Sl No	Name of the Equipments	CH Bagsaid	CH Padhar	CH Dharampur	CH Junga	CH Theog	CH Chopal	CH Kotkhai	PHC Dhagera	CH Anni	CH Amb	CH Chowri	CH Tissa	Total Qty
1	ICU Bed(Manual 4 section with Mattress)	1	2	2	2	3	2	1	2	2	3	1	1	49
2	BEDSIDE LOCKER	1	2	2	2	3	2	1	2	2	3	1	1	49
3	OVERBED TABLE	1	2	2	2	3	2	1	2	2	3	1	1	49
4	IV STAND WITH SS ROD AND CASTOR BASE	1	2	2	2	3	2	1	2	2	3	1	1	49
5	HEMO DIALYSIS MACHINE	1	2	2	2	3	2	1	2	2	3	1	1	49
6	RO PLANT SYSTEM -500LPH	0	1	1	1	1	1	0	1	1	1	0	0	19
7	RO PLANT SYSTEM-250 LPH	1	0	0	0	0	0	1	0	0	0	1	1	6
8	DIALYSIS REPROCESSOR	1	1	1	1	1	1	1	1	1	1	1	1	25
9	MULTI PARA MONITOR	1	2	2	2	3	2	1	2	2	3	1	1	49
10	SYRINGE PUMP	1	2	2	2	3	2	1	2	2	3	1	1	49
11	LARYNGOSCOPE	1	1	1	1	1	1	1	1	1	1	1	1	25
12	THERMOMETER- INFRARED TYPE	1	1	1	1	1	1	1	1	1	1	1	1	25
13	AMBU BAG ADULT	1	1	1	1	1	1	1	1	1	1	1	1	25
14	ELECTRONIC WEIGHING SCALE- ADULT	1	1	1	1	1	1	1	1	1	1	1	1	25
15	WHEEL CHAIR - FOLDABLE	1	1	1	1	1	1	1	1	1	1	1	1	25
16	CRASH CART	1	1	1	1	1	1	1	1	1	1	1	1	25
17	DRESSING TROLLEY	1	1	1	1	1	1	1	1	1	1	1	1	25
18	DRUG TROLLEY/MEDICINE CART	1	1	1	1	1	1	1	1	1	1	1	1	25
19	GLUCOMETER	1	1	1	1	1	1	1	1	1	1	1	1	25
20	STETHOSCOPE	1	1	1	1	1	1	1	1	1	1	1	1	25
21	BICARB MIXER	1	1	1	1	1	1	1	1	1	1	1	1	25
22	Scrub Station(SS-Two Tap)	1	1	1	1	1	1	1	1	1	1	1	1	25

SECTION Q
TECHNICAL SPECIFICATION COMPLIANCE SHEET

The detailed technical specification for the products required as per the tender is given in the ITB section of this tender document. The bidder has to submit the compliance to the Technical specification as per the below table.

SI No	Item Name	Quoted (Yes/No)	Make and Model	100% Technically Complied (Yes / No) please specify if any deviation from technical specification as mentioned in Section F

[Furnish parawise compliance in a tabular form (as per the format mentioned below) in the letterhead of bidder, where the technical specification (parawise) of all the equipment as per bid should be mentioned in the left column & bidder's compliance at the right with mention of page no. of the product catalogue / product data sheet].

Name of the Equipment (Make & Model):

(Add separate sheets depending upon the space requirements)

Bid specification (Para wise)	*Bidder's Compliance Para wise "Yes / No" along with remarks if any	**Page No. of the technical brochure where the compliance is mentioned

*** Leaflets / Technical Brochures / Product Data Sheets** of the Model offered **highlighting features** of the product offered must be attached in support of the information provided above.

****** It is **mandatory** to mention the page no(s) in the format as mentioned above.

We hereby certify that the products being offered and which shall be supplied on successful winning of the tender, shall meet all the technical and commercial requirements as mentioned in this tender document.

Signature and Seal of the Bidder.....

Section R
CHECK LIST

S.L No	Documents to be submitted	Submitted (Yes/No)	Page No.
1	Bidder should have a valid Certificate of GST Registration		
2	Bidder should have a valid Certificate of IT PAN Card		
3	Bidder should have a valid Certificate of Certificate of incorporation / Memorandum of Article		
4	EMD – Copy of the NEFT/RTGS details		
5	Copy of Udyam Registration, in case of MSME Bidders		
6	The bidder should submit the duly notarized Power of Attorney, issued by the competent authority in favour of the signatory of the bid in the stamp paper of appropriate value as per the Stamp Act.		
7	Enclose audited Balance sheets, Profit & Loss Statements, and IT return statements certified by a Chartered Accountant as proof of financial status.		
8	The bidder shall have successfully completed turnkey projects for establishment of Dialysis Centres/ICUs/OTs/SNCUs/Modular OT healthcare facilities during the last Seven years ending on 31.03.2026. These turnkey projects should encompass both necessary infrastructure works and equipment supply. The bidder must demonstrate project(s) with a cumulative value of at least Rs. 5.00 Cr, completed under a maximum of Five purchase orders. OR Successfully completed a minimum of 10 turnkey healthcare facilities involving both infrastructure works and medical equipment supply. a. Dialysis Centre - (The medical equipment supplied under such projects should include Hemo Dialysis Machine, Reprocessor and RO Plant). OR b. OT/Modular OT- (The medical equipment supplied under such projects should include Anesthesia Workstation, Multipara Monitor, OT Light and OT Table). OR c. ICU- (The medical equipment supplied under such projects should include Ventilator, Multipara Monitor, Syringe Pump/Infusion Pump and ICU Bed) The Duly filled and signed copy of the PERFORMANCE DECLARATION FORM as per the tender document is to be attached. Copies of work orders and satisfactory work completion reports issued by the Client/Authority concerned shall be submitted in proof of the same.		
9	For Govt. /Departmental works, Work orders and corresponding completion certificate issued by the Competent Authority (Exe. Engr, Supt. Engr., etc.) Shall be submitted. Completion certificates for works issued by private parties shall be supported by TDS certificates/Bank Statement.		
10	Documentary proof for establishing the average annual turnover of the bidder in the last three years, (2022-23, 2023-24 & 2024-25) is not less than Rs.500.00 Lakh certified by a chartered accountant. The Duly filled and Signed copy of the FINANCIAL STATEMENT to be attached		
11	Dully filled Performance Statement as per item no.2 of Section G		

12	Dully filled Category Details of Organization (MSE) as per item no.3 of Section G of Section G	एचएलएल लाइफकेयर लिमिटेड	
13	Dully filled Self-Declaration – Make in India Preference as per item no. 4 of Section G .	स्वस्थ पीढ़ियों के लिए नवाचार	
14	Dully filled Self-Declaration -Compliance to Rule 144(XI) of the GFR 2017 as per item no. 5 of Section G		
15	Dully filled Requisition form for E-payment as per item no. 6 of Section G		
16	Has the Supplier/Firm/Company ever been black listed by the Govt./or the registering authority. (Yes / No)If NO, the duly signed declaration form as per item no-7 of Section- G is to be attached		
17	Self-Certificate: Non-Black Listing Certificate of no-blacklist in any firms in bidders letterhead		
18	Duly Signed No Deviation Certificate as per item no-8 of Section - G to be attached		
19	Duly Signed Acceptance Form as per item no-9 of Section -G to be attached		
20	Duly signed Completion Period declaration as per item no-10 of Section -G to be attached		
21	HSN Code of Equipment as per SECTION H		
22	Manufacturer authorization or Consortium agreement as per SECTION I .		
23	Duly signed and filled Section K Price Schedule		
24	Duly signed and filled Section L Contract form for Comprehensive Annual Maintenance Contract		
25	Duly signed and filled Section M Consignee Receipt Certificate		
26	Duly signed and filled Section N Performa of Final Acceptance Certificate by the Consignee		
27	Duly signed and filled Section O Undertaking Letter		
28	Duly signed and filled Section P Consignee Address		
29	Dully Filled Technical Specification Compliance Sheet Section Q to be attached		
30	Duly filled and Signed Check List as per Section R to be attached		
31	Dully Filled General information of the Manufacturer / Supplier, Section S to be attached		
32	Dully filled Pre Contract Integrity pact as per of Section - T to be attached		
33	Product brochure literature, write up etc. For all products		

Section S

General information of the Manufacturer / Supplier

1.Name of the manufacturer/supplier	
• Name of Contact Person	
• Mobile No	
• E-mail Address	
• Whether Distributor/Authorized Agent/	
• Original Equipment Manufacturer	
• Specify whether SSI / MSE unit :	
2. How many years have you been in the business of manufacturing/selling?	
3. Details of Tax Registration	
a) GST NO	
b) PAN NO	
4. Name & Address of your Banker (s)	
Account no.	
Swift Code	
IFSC Code	
All the information provided herein is true & correct.	

PLACE:

DATE

BIDDER NAME & SIGNATURE
(WITH OFFICE SEAL)

PRE CONTRACT INTEGRITY PACT
(In the company letter with sign & seal)
INTEGRITY PACT

All tenderers are bound to comply with the integrity pact clauses. Bids submitted without signing the integrity pact will be ab initio rejected without assigning any reason.

HLL Lifecare Limited.

Division :

Tender No:

INTEGRITY PACT

This Pre-Contract Integrity Pact (herein after called the Integrity Pact) is made on _____ day of the month of _____

Between

HLL Lifecare Ltd. (CIN: U25193KL1966GOI002621) a Government of India Enterprise with registered office at HLL Bhavan, Poojappura, Thiruvananthapuram 695 012, Kerala, India. (Hereinafter called "HLL", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Party.

And

M/s _____ with office at represented by Shri _____ , Designation..... (hereinafter called the "TENDERER/Seller"/Contractor/Agent which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Party.

Both HLL and TENDERER referred above are jointly referred to as the Parties.

Preamble

HLL intends to award, under laid down organizational procedures, Purchase orders / contract/s against Tender /Work Order /Purchase Order No. HLL desires full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Tenderer/s and Contractor/s.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

1. Enable HLL to obtain the desired materials/ stores/equipment/ work/ project done at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement; and
2. Enable the TENDERER to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and HLL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Clause.1. Commitments of HLL

1.1 HLL undertakes that HLL and/or its Associates (i.e. employees, agents, consultants, advisors, etc.) will not demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the TENDERER, either for themselves or for any person, organization or third party related to the

contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

(A Government of India Enterprise)

एचएलएल लाइफ़केयर लिमिटेड

स्वस्थ पीढ़ियों के लिए नवनिर्माण

1.2 HLL will, during the tender process / pre-contract stage, treat all TENDERERS with equity and reason, and will provide to all TENDERERS the same information and will not provide any such information or additional information, which is confidential in any manner, to any particular TENDERER which could afford an advantage to that particular TENDERER in comparison to other TENDERERS in relation to tendering process or during the contract execution.

1.3 All the officials of HLL will report to IEM, any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

1.4 HLL will exclude from the process all known prejudiced persons and persons who would be known to have a connection or nexus with the prospective tenderer.

1.5 If the TENDERER reports to HLL with full and verifiable facts any misconduct on the part of HLL's Associates (i.e. employees, agents, consultants, advisors, etc.) and the same is prima facie found to be correct by HLL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by HLL. Further, such an Associate may be debarred from further dealings related to the contract process. In such a case, while an enquiry is being conducted by HLL the proceedings under the contract would not be stalled.

Clause 2. Commitments of TENDERERS/ CONTRACTORS

2. The TENDERER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

2.1 The TENDERER will not offer, directly or indirectly (i.e. employees, agents, consultants, advisors, etc.) any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of HLL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

2.2 The TENDERER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of HLL or otherwise in procuring the contract or forbearing to do or having done any act in relation to obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.

2.3 The TENDERER will not engage in collusion, price fixing, cartelization, etc. with other counterparty(s).

2.4 The counterparty will not pass to any third party any confidential information entrusted to it, unless duly authorized by HLL.

2.5 The counterparty will promote and observe ethical practices within its Organization and its affiliates.

2.6 TENDERER shall disclose the name and address of agents and representatives and Indian TENDERERS shall disclose their foreign principals or associates.

2.7 The counterparty will not make any false or misleading allegations against HLL or its Associates.

2.8 TENDERERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

2.9 The TENDERER further confirms and declares to HLL that the TENDERER is the original manufacture/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to HLL or any of its functionaries, whether officially or unofficially to

award the contract to the TENDERER, nor has any amount been paid, promised or intended to be paid to any individual or company in respect of any such intercession, facilitation or recommendation.

2.10 The TENDERER while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of HLL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

2.11 The TENDERER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

2.12 The TENDERER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

2.13 If the TENDERER or any employee of the TENDERER or any person acting on behalf of the TENDERER, either directly or indirectly, is a relative of any of the officers of HLL, or alternatively, if any relative of an officer of HLL has financial interest/stake in the TENDERER's firm, the same shall be disclosed by the TENDERER at the time of filing of tender. The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

2.14 The TENDERER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of HLL.

2.15 The TENDERER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract, and will not enter into any undisclosed agreement or understanding with other Tenderers, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

2.16 The TENDERER will not commit any offence under the relevant Indian Penal Code, 1860 or Prevention of Corruption Act, 1988; further the Tenderer(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the HLL as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically. The TENDERER also undertakes to exercise due and adequate care lest any such information is divulged.

2.17 The TENDERER will not instigate third persons to commit offences outlined above or be an accessory to such offences.

2.18 The Tenderer(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Tenderer(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign Principal(s), if any.

2.19 The Tenderer(s) shall not approach the courts while representing the matters to IEM and the Tenderer(s) will await their decision in the matter.

Clause.3. Previous contravention and Disqualification from tender process and exclusion from future contracts

3.1 The TENDERER declares that no previous contravention occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify TENDERER's exclusion from the tender process

3.2 The TENDERER agrees that if it makes incorrect statement on this subject, TENDERER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason. If TENDERER before award or during execution has committed a contravention through a violation of Clause 2, above or in any other form such as to put his reliability or credibility in question, t HLL is entitled to disqualify the TENDERER from the tender process.

Clause.4. Equal treatment of all Tenderers / Contractors / Subcontractors

4.1 The Tenderer(s)/ Contractor(s) undertake(s) to demand from his Subcontractors a commitment in conformity with this Integrity Pact.

(A Government of India Enterprise)

एचएलएल लाइफ़केयर लिमिटेड

स्वस्थ पीढ़ियों के लिए नवान्वेषण

4.2 HLL will enter into agreements with identical conditions as this one with all Tenderers and Contractors.

4.3 HLL will disqualify from the tender process all tenderers who do not sign this Pact or violate its provisions.

Clause.5. Consequences of Violation / Breach

5.1 Any breach of the aforesaid provision by the TENDERER or any one employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER) shall entitle HLL to take all or any one of the following action, wherever required:-

i. To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the

TENDERER. However, the proceedings with the other TENDERER(s) would continue.

ii. If TENDERER commits violation of Integrity Pact Policy during bidding process, he shall be liable to compensate HLL by way of liquidated damages amounting to a sum equivalent to 5% to the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.

iii. In case of violation of the Integrity Pact after award of the contract, HLL will be entitled to terminate the contract. HLL shall also be entitled to recover from the contractor liquidated damages equivalent to 10% of the contract value or the amount equivalent to security deposit/ performance guarantee, whichever is higher.

iv. To immediately cancel the contract, if already signed, without giving any compensation to the TENDERER.

v. To recover all sums already paid by HLL, and in case of an Indian TENDERER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a TENDERER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the TENDERER from HLL in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid amount.

vi. To encash the advance bank guarantee and performance guarantee /warranty bond, if furnished by the TENDERER, in order to recover the payments already made by HLL, along with interest.

vii. To cancel all or any other contract with the TENDERER. The TENDERER shall be liable to pay compensation for any loss or damage to HLL resulting from such cancellation/recession and HLL shall be entitled to deduct the amount so payable from the money(s) due to the TENDERER.

viii. To debar the TENDERER from participating in future bidding processes of HLL for a minimum period of five (5) years, which may be further extended at the discretion of HLL or until Independent External Monitors is satisfied that the Counterparty will not commit any future violation.

ix. To recover all sums paid in violation of this Pact by TENDERER(s) to any middleman or agent or broker with a view to securing the contract.

x. In cases where irrevocable Letters of credit have been received in respect of any contract signed by HLL with the TENDERER, the same shall not be opened.

xi. Forfeiture of performance guarantee in case of a decision by HLL to forfeit the same without assigning any reason for imposing sanction for violation of the pact.

5.2 HLL will be entitled to all or any of the actions mentioned in para 5.1(i) to (x) of this pact also on the commission by the TENDERER or any one employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

5.3 The decision of HLL to the effect that a breach of the provisions of this Pact has been committed

by the TENDERER shall be final and conclusive on the TENDERER. However, the TENDERER can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

Clause.6. Fall Clause

The TENDERER undertakes that it has not supplied/is not supplying similar product/systems or subsystems OR providing similar services at a price / charge lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found any stage that similar product/systems or sub systems was supplied by the TENDERER to any to the Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time will be applicable to the present case and the difference in the cost would be refunded by the TENDERER to HLL, if the contract has already been concluded.

Clause .7. Independent External Monitor(s)

7.1 HLL has appointed Shri. Ravi Dutt Kamboj, IFoS (Retd.), as Independent External Monitor(s) (hereinafter referred to as IEM(s)) for this Pact in consultation with the Central Vigilance Commission. Contact details of IEM is as below:

Shri Ravi Dutt Kamboj, IFoS (Retd.)
Independent External Monitor (IEM)
Office: HLL Lifecare Limited, HLL Bhavan,
Poojappura, Thiruvananthapuram 695 012, Kerala
Email: iemhll@lifecarehll.com

7.2 The responsibility of the IEM(s) shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The IEM(s) shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

7.4 Both the parties accept that the IEM(s) have the right to access all the documents relating to the project/ procurement, including minutes of meetings.

7.5 As soon as the IEM(s) notices, or has reason to believe, a violation of this pact, he will so inform the CEO/CMD.

7.6 The TENDERER(S) accepts that the IEM(s) have the right to access without restriction to all project documentation of HLL including that provided by the TENDERER. The TENDERER will also grant the IEM(s), upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors engaged by the TENDERER. The IEM(s) shall be under contractual obligation to treat the information and documents of the TENDERER/ Subcontractor(s) with confidentiality.

7.7 HLL will provide to the IEM(s) sufficient information about all meetings among the parties related to the Project provided such meeting could have an impact on the contractual relation between the parties. The parties will offer to the IEM(s) option to participate in such meetings.

7.8 The IEM(s) will submit a written report to the CEO/CMD of HLL within 8 to 10 weeks from the date of reference or intimation to him by HLL/TENDERER and, should consent arise, submit proposals for correcting problematic situations.

Clause.8.Criminal charges against violating Tenderer(s)/ Contractor(s)/ Subcontractor(s)

If HLL obtains knowledge of conduct of a Tenderer, Contractor or Subcontractor, or of an employee or a representative or an associate of a Tenderer, Contractor or Subcontractor which constitutes corruption, or if HLL has substantive suspicion in this regard, HLL will inform the same to the Chief Vigilance Officer.

Clause.9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, HLL or its agencies shall be entitled to examine all the documents, including the Books of Accounts of the TENDERER and the TENDERER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

Clause.10. Law and Place of Jurisdiction

Both the Parties agree that this Pact is subject to Indian Law. The place of performance and hence this Pact shall be subject to Thiruvananthapuram Jurisdiction.

Clause.11. Other legal Actions

The actions stipulated in the Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

Clause.12. Validity and Duration of the Agreement

This Pact begins when both parties have legally signed it. It expires for the Contractor/Successful tenderer 12 months after the last payment under the contract or the complete execution of the contract to the satisfaction of the both HLL and the TENDERER /Seller, including warranty period, whichever is later, and for all other Tenderers/unsuccessful tenderers 6 months after the contract has been awarded.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman and Managing Director of HLL.

Clause. 13. Other provisions

13.1 Changes and supplements as well as termination notices need to be made in writing. Both the Parties declare that no side agreements have been made to this Integrity Pact.

13.1 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

13.1 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions

INWITNESS THEREOF the parties have signed and executed this pact at the place and date first above mentioned in the presents of following witnesses:

HLL Lifecare Ltd.

Tenderer

Witness Witness

1.....

2.....

1.....

2.....