

# TENDER DOCUMENT

**CIVIL AND ELECTRICAL WORKS FOR THE  
CONSTRUCTION OF HEALTH & WELLNESS CENTRE AT  
VARIOUS DISTRICTS IN FARIDABAD REGION, HARYANA**



**PROJECTS DIVISION,  
HLL LIFECARE LIMITED**

(A GOVT. OF INDIA ENTERPRISE)

Corporate and Registered Office:

HLL Bhavan, Poojappura,

Thiruvananthapuram – 695012, Kerala, India

Phone +91 471 2354949 / 2775500/ 2775588

Web: [www.lifecarehll.com](http://www.lifecarehll.com)

**NOVEMBER 2018**

**HLL LIFECARE LIMITED**

(A Government of India Enterprise)

Projects Division

Corporate Head Office, Poojappura.P.O,  
Thiruvananthapuram – 695012, Kerala, India

Phn: 0471- 2354949, 2775588

**INVITATION FOR BIDS (IFB)****IFB No : HLL/CHO/PROJ/HCD/H&W/SC-NEW/FBD/2018-19****Date : 29-11-2018**

HLL Lifecare Limited (HLL), a Government of India Enterprise is in the process of setting up of Health & Wellness Centre at Various Locations Haryana State. For the said project, sealed and superscribed bids are invited from competent and experienced Suppliers/Contractors who are capable to do the following work meeting the requirements as per our tender.

| Sl. No | Brief Description of Item/Work  | Qty                 | EMD in Rs    |
|--------|---|---------------------|--------------|
|        | Civil and Electrical Works for the construction of Health & Wellness Centre at various Districts in Faridabad Region, Haryana |                     |              |
| 1      | Faridabad District  | As per Schedule V-A | Rs. 50,000/- |
| 2      | Palwel District   | As per Schedule V-B | Rs. 50,000/- |
| 3      | Nuh District  | As per Schedule V-C | Rs. 50,000/- |

**3. Qualification Criteria:**

- a. Bidders, **for each Districts**, should have experience of having successfully completed within a period of last 5 years ending 30/10/2018 at least
- One similar work of value not less than Rs 37 Lakhs Or
  - Two similar works, each of value not less than Rs 28 Lakhs Or
  - Three similar works, each of value not less than Rs 18 Lakhs

Note:- Copies of Work orders and Completion certificates issued by the Client/Authority concerned shall be submitted in proof of the same.

- c. Average annual financial turnover of the bidder during the last 3 years, ending 31st March of the previous financial year, should be at least Indian Rupees (INR) 35 Lakhs.

Note:- Enclose audited Balance sheets in proof for the above period.

4. The eligible bidder can quote for any number of Districts (should not exclude any location from each of the districts) given in Schedule V. The work shall be awarded to the Qualified bidder, who quotes the **lowest amount for each of the Districts**.

5. The bid documents will be available up to 15.00 Hrs. on the previous working day of the opening of the bids. The complete bid documents are available for download in our website [www.lifecarehll.com](http://www.lifecarehll.com) and CPP Portal. The scheduled date for issue, receipt and opening of bids is as follows.

- a) Date of issue of tender document -29-11-2018 onwards
- b) Last date and time for receipt of bids -26-12-2018 up to 15.00 Hrs
- c) Date and time of opening of bids -26-12-2018 up to 15.30 Hrs
- d) Address for communication, receipt and place of opening of bids:

**SENIOR MANAGER (PROJECTS),**

Projects Division,  
HLL Lifecare Limited (A Government of India Enterprise)  
Corporate Head Office, Poojappura.P.O,  
Thiruvananthapuram – 695012, Kerala, India  
Phn: 0471- 2354949, 2775588  
E-mail: [harikrishnankp@lifecarehll.com](mailto:harikrishnankp@lifecarehll.com), [rahuls@lifecarehll.com](mailto:rahuls@lifecarehll.com),  
[choprojects@lifecarehll.com](mailto:choprojects@lifecarehll.com), [adarshks11@lifecarehll.com](mailto:adarshks11@lifecarehll.com)

6. In addition to the invitation for bids, the bidding documents include the following schedules.

|              |   |                                |
|--------------|---|--------------------------------|
| Schedule I   | - | Conditions of Bid              |
| Schedule II  | - | General Conditions of Contract |
| Schedule III | - | Special Conditions             |
| Schedule IV  | - | Forms and Declarations         |
| Schedule V   | - | Price Bid                      |

7. The completed and sealed bid documents should be submitted to Senior Manager (Projects), in the above address along with the EMD. The EMD should be enclosed in a separate envelope and superscribed as “EMD” and to be attached in the main cover.
8. EMD shall be submitted in the form of demand draft drawn from a nationalized bank in favor of HLL Lifecare Limited payable at Thiruvananthapuram. Any bid not accompanied by EMD will be rejected.
9. SSI/MSME units interested in availing exemption from payment of EMD should submit a valid copy of their registration certificate issued by the concerned DIC or NSIC / Udyog Aadhaar. But the party has to provide Security deposit, if the work is awarded to them.

Note: If the bidder is a MSME, it shall declare in the bid document the Udyog Aadhar Memorandum Number issued to it under the MSME 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

10. The outer cover should bear the Enquiry No, Closing date and **Name of the Site/s for which Bid** is submitted and the words “DO NOT OPEN BEFORE” 15.30 Hrs (IST) on ----  
----- (Indicate the Closing Date).
11. Bids will be opened in the presence of Bidders representative(s) who choose to attend on the specified date and time, at the office of HLL at the address given in Clause 3 (d) above.

12. Bids received after due date and time will be rejected.
13. In the event of the date specified for bid receipt and opening being declared as a closed holiday for the above purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
14. HLL may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons, in which case all rights and obligations of HLL and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
15. **HLL will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids sent by Telex/Fax/Telegraph/E-mail will not be accepted.**
16. Even though the bidder meet the above qualifying criteria, they are subject to be disqualified if they have:  
  
Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.
17. **HLL reserves the right to club or split the items of works, change the qualifying criteria at their discretion and to reject or cancel the Invitation for bids without assigning any reason thereof.**

**SENIOR MANAGER (PROJECTS)**

## SCHEDULE I

### CONDITIONS OF BID

#### 1. Definitions

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

- a. **'INVITATION FOR BID'** shall mean and include the present document, and such other complements and agenda, which may subsequently be issued in this connection.
- b. **'BIDDER/TENDERER'** shall mean the person, firm or Corporation submitting a bid against this invitation for bid and shall also include his agents and representatives.
- c. **'CLIENT/PURCHASER'** shall mean HLL Lifecare Limited (HLL) (Thiruvananthapuram) or its units thereof.
- d. **'OWNER'** shall mean National Health Mission (NHM), Haryana, or its units thereof.
- e. **'ENGINEER-IN-CHARGE'**, shall mean the Engineer appointed by the purchaser/Client to supervise all activities of the project.
- f. **'CONTRACTOR'**, shall mean the successful bidder whose tender has been accepted by the purchaser/Client and to whom the order is placed by the purchaser/Client and shall include his heirs, legal representatives, successors etc.
- g. **'PERMANENT WORKS'**, means and include all the work specified or set forth and required if any by the specification, drawings and other documents which form part of this contract or to be implied thereof or incidental thereof to be hereafter or required in such further explanatory instructions, drawings etc., as shall from time to time during the progress of the work be given by the HLL.
- h. **'PROJECT'**, shall mean entire work specified in the contract documents inclusive of extra items/extra quantities (if any) executed during the contract period.
- i. **'ACCEPTANCE LETTER'**, shall mean written consent by a letter of purchaser/Client to the bidder intimating him that his tender has been accepted.
- j. **'CONTRACT'**, shall mean the articles of Contract Agreement, the conditions of contract, schedule of quantities, specifications, drawings attached and duly signed by the purchaser/Client and the Contractor.
- k. **'DATE OF CONTRACT'**, shall mean the date on which the successful bidder has accepted the notification of award.
- l. **'CONTRACT PERIOD'**, shall mean the period (including rainy season) specified in the tender documents during which the contract shall be executed.
- m. **'COMPLETION CERTIFICATE'**, shall mean the certificate issued by the purchaser/Client to the Contractor after successful completion of the project.

- n. **'EXTRA ITEMS'**, are those items, which are not appearing in the Schedule of Items but required to be executed during the project period.

## 2. Bid Information and Period of Validity

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

2.2 The Technical Bid must include the following information;

- a. Enquiry No.
- b. Earnest Money Deposit as prescribed in the tender
- c. Application for Pre-qualification duly filled, signed & sealed
- d. All the details and documents mentioned in the Technical Bid.
- e. Certificate that bid is in total conformity with the specifications and terms and conditions mentioned in the bid document and if not, list of exclusions, and/or exceptions.
- f. All other documents/certificate/information as specified in the bid document.

2.3 The Price Bid must be as per the following

- a) The bid is invited for **“Civil and Electrical Works for the construction of Health & Wellness Centre at various Districts in Faridabad Region, Haryana”** as per the Specification, Terms and Conditions specified in the Bid Documents. The Bidder shall give the rates inclusive of relevant taxes such as GST, duties, other levies, on the appropriate price schedule (**Schedule of Work**) attached to these documents for completing the above work as per the Specification, Terms and Conditions as specified in the Bid Documents.
- b) Bidder must quote for unit price and total price based on the requirement shown in the bid document.
- c) Price should be firm without any escalation on any account till the completion of work.

2.4 Bids shall remain valid for **18 months** after the date of bid opening prescribed by the Client.

## 3. Format and Signing of Bid

3.1 Bidders shall submit their bids in two parts (TECHNICAL BID and PRICE BID) as under.

- a) Technical bids (Schedule I to IV ), in duplicate clearly marking each “Original Bid” and “Copy Bid”, as appropriate, consisting of technical details bringing out clearly in a separate sheet, the deviations in specifications if any, from that of ‘Technical Specifications’ and also clause-by-clause compliance of specifications and commercial terms and conditions and EMD, excluding price, in separate sealed covers superscribing “Technical Bid” inside a main cover.
- b) Price bid (Schedule V), in duplicate clearly marking each “Original Bid” and “Copy Bid”, as appropriate, showing only item wise and total prices in separate sealed covers superscribing “Price Bid” inside a main cover.

- 3.2 When the main cover is opened on the date and time scheduled for bid opening, only the technical bids will be opened.
- 3.3 Bidders whose technical bids are found substantially responsive will be informed of the date and time of opening of their price bids. Price bids of others will be returned to them unopened.
- 3.4 All pages of the bid, except for un-amended printed literature shall be signed by the person or persons signing the bid. The seal of the company shall be stamped in all pages.
- 3.5 Bids shall be made in English.
- 3.6 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be signed by the person or persons signing the bid.

#### **4. Submission of Bids**

##### **Sealing and Marking of Bids**

- 4.1 The envelopes shall be:
  - (a) Addressed to the purchaser/client in the following address and  
**SENIOR MANAGER (PROJECTS),**  
Projects Division,  
HLL Lifecare Limited (A Government of India Enterprise)  
Corporate Head Office, Poojappura.P.O,  
Thiruvananthapuram – 695012, Kerala, India  
Phn: 0471- 2354949, 2775588  
E-mail: harikrishnankp@lifecarehll.com, choprojects@lifecarehll.com
  - (b) Bear the Enquiry No, closing date and General description of item tendered, and the words “DO NOT OPEN BEFORE” 15.30 Hrs (IST) on \_\_\_\_ (Opening Date) \_\_\_\_\_
- 4.2 The inner envelopes shall indicate the name and address of the Bidder. If the outer envelope is not sealed and marked as indicated above, the purchaser/Client will assume no responsibility for the bid’s misplacement or premature opening.
- 4.3 Bids should be hand delivered or sent by courier/mail to ensure timely arrival. Telex, cable, e-mail or facsimile bids will be rejected.

##### **Deadline for submission of Bids**

- 4.4 The bids will be received by the purchaser/Client in the above address not later than the date and time specified in the Invitation for Bids.
- 4.5 In the event of the specified date for submission of Bids being declared a holiday for the purchaser/owner, the bids will be received up to the appointed time on the next working day.

- 4.6 The purchaser/Client may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents or any other reasons in which case all rights and obligations of the purchaser/Client and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- 4.7 It is the responsibility of the bidders to see that the completed bidding documents whether sent by post or by courier or by person are received in the office of Senior Manager (Projects), in the above address by the date and time stipulated for receipt as above failing which the bid would be considered late and rejected. The purchaser/Client will not be held responsible for the postal delay, if any, in the delivery of the bidding document or the non-receipt of the same. Bids received after due date and time will be rejected. Mere handing over of the bid documents at reception counter or at any other counter or room or person cannot be considered as submission of bid.

## **5. Clarification of Bidding Documents**

A prospective Bidder requiring any clarification of the Bidding Documents may notify the purchaser/Client in writing, or by fax at the purchaser/owners mailing address indicated in the Invitation for Bids. The purchaser/Client will respond in writing to any request for clarification of Bidding Documents, which it receives not later than 7 days prior to the deadline for submission of Bids prescribed by the purchaser/owner.

## **6. Amendment of Bidding Documents**

- 6.1 At any time prior to the deadline for submission of bids, the purchaser/Client may, for any reason, modify the Bidding Documents by amendment.
- 6.2 The amendment will be notified in writing or fax or telegram or e-mail to all prospective Bidders, which have received the Bidding Documents and will be binding on them. Amendments will also be uploaded on the website.
- 6.3 In order to afford prospective Bidders reasonable time in which to take the amendment into account in preparing their bid, the purchaser/Client may, at its discretion, extend the deadline for the submission of bids.

## **7. Bid Opening by purchaser/owner**

- 7.1 The purchaser/Client will open bids, in the presence of the bidders' representatives who choose to attend, at the date and time specified and in the location given in this document. The Bidders' representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for the purchaser/owner, the bids shall be opened at the appointed time and location on the next working day.
- 7.2 The Bidders' names, the presence or absence of the requisite EMD and such other details as the purchaser/owner, at its discretion, may consider appropriate will be announced at the opening.
- 7.3 The purchaser/Client will prepare appropriate bid opening register and bidders present during the opening of the bids and purchaser/Client shall sign the same.



## **8. Clarification of bids**

To assist in the examination, evaluation and comparison of bids, the purchaser/Client may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the rate or substance of the bid shall be sought, offered or permitted.

## **9. Inspection of site**

**Every bidder/Tenderer is expected to inspect the site of the proposed work and acquaint himself with the site conditions, approaches etc. before quoting his rates.**

No claim whatsoever should be entertained later on the plea of any difficulties involved in the execution of work, which was or was not foreseen by the Tenderer.

## **10. Preliminary examination**

- 10.1 The purchaser/Client will examine the bids to determine whether they are complete, whether any computational errors, have been made, whether required EMD has been furnished, whether the documents have been properly signed, whether the bid validity is as required and whether the bids are generally in order.
- 10.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be calculated. If there is a discrepancy between the words and figures of unit price, the amount in words of unit price shall prevail.
- 10.3 Prior to the detailed evaluation, the purchaser/Client will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one, which conforms to specifications and all the terms and conditions of the bidding documents without material deviation. The purchaser/owner's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- 10.4 A bid determined as not substantially responsive will be rejected by the purchaser/Client and may not subsequently be made responsive by the bidder by correction of the non-conformity.
- 10.5 The purchaser/Client may waive any minor informality or non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any bidder.
- 10.6 The purchaser/owner's determination as to the substantial responsiveness or otherwise of each bid or consideration of a minor informality or non-conformity or irregularity is final and conclusive.

## **11. Evaluation and comparison of bids.**

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

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

## **12. Post – qualification**

- 12.1 Notwithstanding the qualification requirements given in this document, the purchaser/Client will determine to its satisfaction whether the Bidder selected as having submitted the lowest evaluated responsive bid is qualified to satisfactorily perform the Contract.
- 12.2 The determination will take into account the Bidder's financial, technical and execution capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the purchaser/Client deems necessary and appropriate.
- 12.3 The purchaser/Client reserves the right to negotiate with the lowest evaluated responsive bidder.
- 12.4 An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the purchaser/Client will proceed to the next lowest evaluated bid to make a similar determination of that bidder's capabilities to perform satisfactorily.

## **13. Award Criteria**

The purchaser/Client will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily for the items offered.

## **14. Notification of Award**

- 14.1 Prior to the expiration of the period of bid validity, the purchaser/Client will notify the successful Bidder in writing by or cable or telex or fax, to be confirmed in writing by post, that its bid has been accepted. The notification of award may be sent in the form of Letter of Intent and/or Work order.
- 14.2 The signed acceptance of the notification of award by the Contractor will constitute a concluded contract.

## **15. Security Deposit**

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

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

15.3 The EMD submitted by the successful bidder shall be converted to Security Deposit and the bidder shall be allowed to remit the balance amount.

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

15.5 Forfeiture of Security Deposit:

If the successful bidder / Contractor fails to supply the ordered material at the rate finalized or execute the work and / or supplies only part quantity / partially execute the work or fails to comply with the terms and conditions of the purchase order / work order the security deposit furnished will be forfeited / Bank Guarantee encashed.

**16. Earnest Money**

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

16.2 The EMD is required to protect the purchaser/Client against risk of Bidder's conduct, which would warrant the security's forfeiture

a. The EMD shall be in the form of Demand Draft from a nationalized bank drawn in favor of HLL Lifecare Limited, Thiruvananthapuram payable at Thiruvananthapuram.

b. E.M.D. of the unsuccessful bidders will be released after tabulating tenders, keeping only the earnest money of the first three lowest bidders. The earnest money deposit of the remaining two unsuccessful bidders will be released after the acceptance of the notification of award by the successful bidder.

c. In the case of successful bidder, the Earnest Money will be returned after accepting the order and submission of Demand Draft towards Security Deposit, which they will have to offer for the faithful execution of the contract.

16.3 The EMD may be forfeited:

(a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid Document; or

(b) In case of the successful Bidder, if the Bidder fails:

- (i) To furnish the Order acceptance copy
- (ii) To furnish security deposit.

## SCHEDULE II

### GENERAL CONDITIONS OF CONTRACT

#### 1.0 PROJECT INFORMATION

##### 1.1 General:

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

##### 1.2 Location of Site:

The locations of sites are at Faridabad district, Palwel District and Nuh District in Faridabad Region of Haryana.

##### 1.3 Price

Price quoted should be firm without any escalation till the Contract is completely executed and should be for the item/work shown under **Schedule of Work: Schedule V- for each districts as A, B & C.**

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

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

##### 1.4 Site Facilities:

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

#### 2 COMMITMENT OF CONTRACTOR

##### 2.1 Interpretation of Contract documents:

2.1.1. All the documents forming part of the contract are to be taken as mutually explanatory, supplementary and complementary to each other. If there is any error, omission or discrepancy in any of them, it shall be brought to the notice of the purchaser/owner. The decision of the purchaser/Client shall be final and binding. The contractor shall execute the work accordingly.

- 2.1.2 The contractor shall examine all the contract documents thoroughly including the scope, nature and magnitude of works he has to execute in accordance with the contract documents.
- 2.1.3. The contractor shall visit the project site so as to study the site conditions, means of access to the site and other factors governing the works.
- 2.1.4. There may be change in layout of site as per technical requirements and the tenderer shall not be entitled for any claim due to such changes & should carry out such changes.

## 2.2 Period of Completion

Time is the essence of the contract. Time of completion allowed is **12 Weeks for each Location** from the date of acceptance of **Letter of Intent/Work Order or date of Site Clearance**, whichever is later.

## 2.3 Time Schedule:

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

## 2.4 Default of Contractor:

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

- i) To determine the contract: In this event, the contract shall be terminated by giving written notice to the contractor and the unfinished works shall be got completed by labours engaged by the purchaser/Client or through other agency at the cost of the Contractor.
- ii) Without determining the contract: In this event, the remaining works shall be got executed through a fresh contractor in which case the Contractor shall not have any objection or claim on this account.
- iii) Before determining the contract: In this event, if the purchaser/Client finds that the defaults of the Contractor can be rectified, then an opportunity shall be given to the same contractor to rectify the defects /defaults in the specified time.
- iv) Termination of contract for death: If the contractor is an individual of a proprietary firm and proprietor of the firm dies and if the Contractor is a Attorney of partnership firm and dies, then the purchaser/Client has the right to terminate the contract unless and until the purchaser/Client is satisfied that the surviving partners are capable of executing and completing the remaining contract. In case of termination of contract, the legal representatives of the deceased Contractor are not entitled for any compensation or claim. Also, the purchaser/Client shall not levy any penalty against the damage caused by incomplete work.

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

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

### **2.5 Variation in scope of works:**

- a) Variation in quantity:

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

- b) Variation in drawings and specifications:

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

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

### **2.6 Staff and Workers:**

The contractor shall depute qualified engineers for execution of the project. The technical staff employed by the contractor shall be responsible for the quality and workmanship of the work as per the satisfaction of the purchaser/owner. The Contractor's supervisory staff

should follow the instructions given by the purchaser/Client or his authorised representative. If any of the Contractor's staff members is incapable or in-experienced, in the opinion of the purchaser/owner, then he should be removed immediately and the contractor should do suitable substitution. Technical staff employed should be degree holder from a government-recognized institution or equivalent with at least 3 years practical experience of work in addition to Diploma holder and other experienced supervisory staff.

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

**2.7 Subletting of contract:**

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

**2.8 Co-operation with other agencies at site:**

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

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

**2.9 Contractor should keep his working site clean and the materials brought for work shall be kept in a properly stacked / stored way.**

The work site should be swept at the end of each working day after removal of debris/ left over materials. The Contractor has to take full care so as not to spoil or damage other Contractor's/ purchaser/owner's job / material.

**2.10 Safety of adjoining properties:**

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

**2.11 Settlement of dispute:**

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

## **2.12 Escalation:**

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

## **2.13 Insurance:**

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

### **i) Insurance of works:**

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

### **ii) Insurance of employees:**

The Contractor shall accept full and exclusive liability for the compliance of all obligations and responsibilities imposed by the Employees State Insurance Act, 1948 and any liability or penalty which may be imposed by the Central, State or Local Authorities due to the reason of violation by the contractor or sub-contractor of the Employees State Insurance Act, 1948. The Contractor shall agree to fulfill the requirement of the Employees State Insurance Corporation and maintain the declaration forms and all such forms, which may be, required in respect of the contractor's, sub-contractor's employees who are employed in the work provided for or those covered by E.S.I.C. from time to time under the agreement. The purchaser/Client shall retain such sum as may be necessary from the total contract value until the contractor shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948 have been paid by him.

### **iii) Workmen's Compensation:**

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

### **iv) Transit Insurance:**

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



**v) Loss or damage and Indemnity Agreement:**

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

**vi) Third party insurance:**

Before commencing the execution of the works the Contractor, but without limiting his obligations and responsibilities, shall insure against his liability for any material or physical damage, loss or injury which may occur to any property, including that of the purchaser/owner, or to any person, including any representative of the purchaser/owner, by or arising out of the execution of works or in the work being carried out by the purchaser/owner, by or arising out of the provision of clause 2.14.v here of. Such insurance shall be affected with an insurer and in terms approved by the purchaser/Client and for at least the amount stated in the Appendix of the Tender.

vii) The Contractor shall take **Contractor's All Risks Insurance (CAR)** policy, jointly in the name of HLL LIFECARE LIMITED and the Contractor and the insurance should be valid till the satisfactory completion of the work. The copy of the policy shall be deposited with HLL before commencing the work.

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

**2.14 Indemnification Clause**

The Bidder shall indemnify and hold harmless the purchaser/owner/Purchaser from and against the below mentioned:

- i. All claims, demands, action, proceedings, losses, damages, liabilities, cost, charges, expenses or obligations that are occasioned or may occasion to HLL as a result of our non-payment of any statutory dues levied/leviable on the Contractor or the Contractor committing breach of any the rules, regulations, orders, directives, instructions that may be issued by any authority under various Labor Laws, PF, ESI Acts and all other applicable Laws/Acts/Rules or any other Statue or Laws for the time being in force
- ii. Any damages, loss or expenses due to or resulting from any negligence or breach of duty on our part or on the part of Sub-Contractor/s, if any, servants or agents of the Bidder.
- iii. Claims, if any, of the employee or the Contractor and its Sub Contractor/s, under the Workmen's Compensation Act, 1923 and Employer's Liability Act 1938 or Various

Labor Laws or any other Laws rules and regulations in force for the time being in India and any acts replacing and/or amending the same or any of the same as may be in force at the time and under any law in respect of injuries to persons or property arising out of and in the course of the execution of the contract work and / or arising out of and in the course of employment of any workmen / employee.

- iv. Any non - compliance or improper compliance of statues, rules and regulations which are applicable to HLL and also to the Contractor and to the employees , in respect of (a) Employees' Provident Fund and Miscellaneous Provision Act, 1952, (b) Employees State Insurance Act, 1948, © Contract Labor (R&A) Act, 1970 (d) Minimum Wages Act, 1948 (e) Payment of Wages Act,1936 (f) Bonus Act, 1965 (g) Workmen's Compensation Act, 1923 and / or any other laws which may become applicable in respect of the Contract/ Agreement between HLL and the Bidder.
- v. Any Act or omission by us or our Sub-contractor/s, if any, our /their servants or agents which may involve any loss, damages, liability, civil or criminal action.
- vi. To protect against all claims for damage caused due to non-obtaining of insurance policy during the project period.

## **2.15 Force Majeure**

- a. Neither the Contractor nor the Purchaser/purchaser/Client shall be considered in default in the performance of their obligations as per the Contract so long as such performance is prevented or delayed because of strikes, war, hostilities, revolution, civil commotion, epidemics, accidents, fire, cyclone, flood or because of any law and order proclamation, regulation or ordinance of Government or subdivision thereof or because of any act of God. The proof of existence of force majeure shall be provided by the party claiming it to the satisfaction of the other.
- b. The Contractor shall advise Purchaser/purchaser/Client initially by a Fax, followed by post, the beginning and end of any of the above causes of delay, failing which Purchaser/purchaser/Client 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/purchaser/Client and no acceptance of the same has been given and detailed order issued.
- c. In the event of definite delay even if arising out of reasons due to force majeure, Purchaser/purchaser/Client 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.

## **3.0 EXECUTION OF WORK**

### **3.1 General:**

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

### **3.2 Drawings:**

The drawings given in the tender document are as per our present requirement and are meant for the purpose of giving idea of the type and quantum of work to be executed.

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

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

### **3.3 Inspection of works:**

- i) The purchaser/Client shall have the full authority to inspect the works at any time, at any stage. The contractor shall provide adequate facilities to carry the inspection work. The Contractor should present himself or his authorised representative during the inspection so that the purchaser/Client can convey the instruction regarding the works.
- ii) The Contractor shall give information to the Engineer in charge before covering up the works so that the same can be inspected and measured jointly & correctly to true dimensions.
- iii) If the contractor fails to get the work inspected before covering it up, then the purchaser/Client has full authority to get the work uncovered at the expense of the Contractor and if any fault is found then the same should be rectified by the Contractor without claiming any extra payment.

### **3.4 Inadequate/substandard works and materials:**

- i) If any material brought by the Contractor is found unsuitable or of sub-standard quality after testing, then the Contractor shall remove those faulty materials immediately from the site as per the instructions of the purchaser/owner.
- ii) If any work executed by the Contractor is found to be of bad workmanship or not as per the drawings, then the same is to be dismantled and re-executed by the Contractor without claiming any extra payment or extension in time period.

### **3.5 Default of Contractor in compliance:**

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

### **3.6 Discrepancies between instructions:**

If any discrepancy occurs between the various instructions conveyed to Contractor or his authorised representative or if any misunderstanding arises between the Contractor's staff and purchaser/owner's staff, the contractor shall report the matter immediately to the purchaser/owner. The decisions of purchaser/Client shall be final and binding. Moreover,

no claims for losses due to discrepancies between instructions, doubts or misunderstandings shall be admissible.

### **3.7 Power to make alterations**

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

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

### **3.8 Change in specifications and valuation of extra items:**

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

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

- a. In the case of all extra items whether additional, altered or substituted, if accepted rates for identical items provided for in the contract, such rates shall be applicable.
- b. In the case of all extra items whether altered or substituted, for which similar items exist in the contract, the rates shall be derived from the original item by appropriate adjustment of cost of affected components. The percentage excess or deduction of the contract rate for the original item with reference to the estimated rate shall be applied in deriving the rates for such items.
- c. In the case of extra items, whether altered or substituted, for which similar items do not exist in the contract, the rates shall be arrived at on the basis of provision of standard data Book and schedule of rates 2016 of CPWD by adding profit of 15% and applying the contractor's quoted percentage above or below.
- d. In the case of extra items, whether additional altered or substituted, for which the rates cannot be derived from similar items in the contract, and only partly from similar items in the contract, and only partly from the CPWD rates, the rates for such part of parts of items as are not covered in the schedule of rates shall be determined by the purchaser/Client on the basis of the prevailing market rates giving due consideration to the analysis of the rate furnished by the Contractor with supporting documents, including contractor's profit. This shall be added on to the C.P.W.D rate revised (latest) (including contractor's profit). For the other part of the items the rates can be derived from the recent schedule of rates of C.P.W.D.
- e. In the case of extra item whether additional, altered, substituted, for which the rates cannot be derived either from similar item of work in the contract or from the

departmental schedule of rates, the contractor shall within 14 days of the receipt of order to carry out the said extra item of work, communicate to the purchaser/Client the rate which he proposes to claim for the item, supported by analysis of the rate claimed and the purchaser/Client shall within one month thereafter, determine the rate on the basis or the market rate giving due consideration to the rate claimed by the contractor.

- f. The quantities indicated are approximate. On award of work and approval of the scheme, the contractor has to work out the actual quantities of each item of work and intimate to the purchaser/owner. No increase in cost shall be given for any additional quantities of any item given in the tender.

**3.9 Work not specified in the specification:**

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

**3.10 Testing:**

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

- i) If the various tests prescribed in the specifications at specified intervals for ascertaining the quality of the work done prove unsatisfactory, the purchaser/Client shall have the authority to instruct the Contractor to re-execute the work done or make alterations as per the orders of the purchaser/owner.
- ii) The Contractor shall furnish to the purchaser/owner, for approval adequate samples of all materials to be used in the works free of cost. Such samples shall be submitted before the work is commenced, giving ample time to ascertain ISI approval/markings.

All materials furnished in actual works shall be of the same quality of that of approved samples.

- iii) The testing of various equipments to be used in works shall be tested in standard laboratories as directed by the purchaser/Client and the expenses incurred shall be borne by the Contractor.

**3.11 Progress Report:**

During execution of the contract, the contractor shall furnish weekly progress reports to the purchaser/Client and in the format as specified by the purchaser/Client indicating the progress achieved during the week and the total progress up to the week as against scheduled and anticipated completion dates in respect of key phases of the work. The Contractor shall also furnish any other information in order to ascertain progress, if called for by the purchaser/owner.

**3.12 Liabilities for defects and rectifications:**

If it shall appear to the purchaser/Client that any work has been executed with imperfect or unskilled workman or with materials of any inferior description, or of quality inferior to that

contracted for, or otherwise not in accordance with the contract, the Contractor shall on demand in writing from the purchaser/Client or his representative specifying the work, materials or articles complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct that work so specified and provide other proper and suitable materials or articles at his own charges and cost, and in the event of failure to do so within a period to be specified by the purchaser/Client or his demand aforesaid, the purchaser/Client may on expiry of notice period rectify or remove, re-execute the work at the risk of Contractor and the cost shall be recovered from the Contractor. The decision of the purchaser/Client as to any question arising under this clause shall be final and conclusive.

**3.13 Defect liability Period:**

The liability period of the work shall be **18 months** from the date of completion of the work as certified by the purchaser/Client and this date will be as indicated in the provisional completion certificate. If any damage or defect occurs in the work during this period then the contractor shall rectify the damage or defect at his own expense to the satisfaction of the purchaser/Client. If the contractor fails to do so, then the purchaser/Client shall have the authority to get the work done by other means and the expenditure incurred shall be recovered from the contractor.

**3.14 Suspension of work:**

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

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

**In case of suspension of work:**

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

**3.15 Possession prior to completion:**

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

### **3.16 Care of Works:**

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

### **3.17 Delay in Work Execution Due To Reasons beyond Contractor's Control**

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

### **3.18 Liquidated Damages for Delays**

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

## **4.0 CERTIFICATE AND PAYMENT**

### **4.1 Schedule of Rates:**

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

### **4.2 Measurement:**

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

**4.3 Mode of Measurement:**

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

**4.4 Mobilization Advance:**

No mobilization advance shall be paid.

**4.5 Lump sums in Tender:**

Lump sum items considered only where specified.

**4.6 Running Account Payments to be regarded as advances:**

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

**4.7 Payment of Contractor's Bills:**

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



#### **4.8 Billing and terms of payment:**

a) The payment shall be made as under:-

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

- 50% of the total value of work may be released upon the completion of 60 % of the work recommended by State In charge (P&S, HLL) and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).
- Balance 50% will be paid along with the final bill only after submission of Work Completion certificate issued by the concerned hospital and approved by Project Engineer (P&S, HLL)/ Manager (P&S, HLL).

5% amount of the Bill will be retained as retention money and will be released only after the Defect liability period of 18 months.

Final Bill to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State In Charge (P&S, HLL) and the Contractor 's representative, counter signed by Project Engineer (P&S, HLL)/ Manager (P&S, HLL). The work completion certificate will be issued by the concerned centres/hospitals and it is the responsibility of the contractor to collect the completion certificate certified by the concerned hospital authority & HLL authorities and submit to HLL for balance 50% payment

The running account bills are to be submitted detailing the work description, quantity and rate as per the Work Order. Payment will be made against actual measurements recorded and certified jointly by State in charge (P&S, HLL) and the Contractor's representative. For supply of capital items, duly certified delivery challan/supporting documents such as Warranty Certificates etc. shall be enclosed along with bill.

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

#### **5. Provisional Completion Certificate:**

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

If the contractor fails to comply with the requirements of the above on or before the date for the completion of the works, the purchaser/Client may, at the expense of the

contractor, remove the tools and plants and surplus materials and dispose off the same and the contractor shall pay the amount of all expenses incurred.

## **6.0 LABOUR LAWS AND SAFETY REGULATIONS**

### **6.1 Labour Laws:**

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

### **6.2 Minor Accident on Duty:**

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

### **6.3 Provident Fund:**

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

## **7.0 SAFETY CODE**

### **7.1 Safety and Protection:**

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

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

### **7.2 Use of Safety Gadgets:**

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

### **7.3 Unsafe working condition:**

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

### **7.4 First Aid:**

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

### **7.5 Contractor's Barricades:**

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

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

### **7.6 Preservation of peace:**

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

## **8.0 DETAILS OF WORK EXECUTION**

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

## **9.0 CONTRACTOR'S SCOPE OF SUPPLY**

All materials required for executing the jobs specified in the Schedule of Items, inclusive of all tools, tackles, scaffolding, consumables & testing equipments shall be procured and supplied by the contractor at his own cost except for any items specified as purchaser/Client supplied.

## **10.0 RECOVERY FROM THE CONTRACTOR**

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

## SCHEDULE III

### SPECIAL CONDITIONS

1. **The bidder shall visit the site before quoting for the work and also take their own assessments before quoting of bids.**
2. All pages of the bid, except for un-amended printed literature shall be signed by the person or persons signing the bid. The seal of the company shall be stamped in all pages.
3. Bids shall be made in English. The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be signed by the person or persons signing the bid.
4. The Contractor has to agree and strictly abide to all the conditions stipulated in the tender and any offers with deviation or request for deviation are liable to be rejected.
5. To assist in the examination, evaluation and comparison of bids, the purchaser/Client may, at its discretion, ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the rate or substance of the bid shall be sought, offered or permitted.
6. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be calculated. If there is a discrepancy between the words and figures of unit price, the amount in words of unit price shall prevail.
7. Prior to the detailed evaluation, the purchaser/Client will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses, a substantially responsive bid is one, which conforms to specifications and all the terms and conditions of the bidding documents without material deviation. The purchaser/owner's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
8. The purchaser/owner's determination as to the substantial responsiveness or otherwise of each bid or consideration of a minor informality or non-conformity or irregularity is final and conclusive.
9. The purchaser/Client reserves the right to negotiate with the lowest evaluated responsive bidder.
10. The purchaser/Client will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily for the items offered.
11. Prior to the expiration of the period of bid validity, the purchaser/Client will notify the successful Bidder in writing by or cable or telex or fax, to be confirmed in writing by post, that its bid has been accepted. The notification of award may be sent in the form of Letter of Intent and/or Work order.

12. The signed acceptance of the notification of award by the Contractor will constitute a concluded contract.
13. The contractor has to prepare a time schedule for the complete work in detail and submit to purchaser/Client in triplicate within 10 days from the day of Work Order/ Letter Of Intent.
14. The contractor shall comply with by-laws and regulation of local and statutory authorities having jurisdiction over the work and shall be responsible for payment of all fees and other charges and the giving and receiving of all necessary notices and the purchaser/Client shall be kept informed of the said compliances with by-laws, payment made, notices issued and received
15. The quantities set out in the bill of quantities are the estimated quantities of the work. They are not to be taken as the actual and correct quantities of the works to be executed by the contractor in fulfillment of his obligations under the contract.
16. The work should be carried out without causing any inconvenience to the public and shall ensure that no damages are caused to the existing site premises.
17. During the execution of work, the contractor or authorized representative/s at least one person having technical qualification should be present at site.
18. All Materials, Equipment's/ Tools required for the work should be arranged by the contractor and brought to site for the timely completion of the work.
19. All materials to be used in execution of project shall be of first class quality, recommended make; I.S.I. marked and shall be approved by purchaser/Client before its application.
20. The Contractor has to arrange necessary insurance coverage for the machine, workmen etc. deployed by him. He shall arrange all safety measures to protect his workmen and also the properties of Client's Building/Property. The work site safety of all employees, their ESI, PF etc will have to be borne by the contractor.
21. The work should be carried out in truly professional manner, neatly finished with proper line, level and plumb. Cleanliness and finishing of the job is of utmost importance. Hence the job should be done most carefully with best workmanship. For all finishing jobs, samples should be approved from the Purchaser/Client before completely executing the work.
22. The Purchaser/Client should be immediately informed for any discrepancy in drawings, specifications and instructions in the execution of job before actual execution of particular item having discrepancy.
23. Any item found to be having been executed with poor workmanship then the Contractor shall have to rectify /reconstruct the work as specified by Purchaser/Owner. No extra charge will be admissible in such case. If CONTRACTORS fails to do so, the Purchaser/Client reserves the right to rectify / reconstruct the work through some other agency at the expenses of Contractor.

24. The schedule of activities as submitted by the Contractor shall have to be strictly adhered to. Regular progress reports shall have to be submitted by the Contractor giving all details for monitoring of the schedule.
25. Special care is to be taken for cleanliness of the site. After the end of day's work, the site should be cleaned immediately.
26. The Contractor shall have to co-operate with the agencies executing other works in the same area.
27. While executing the work, the Contractor shall ensure safety and security of the property of the Purchaser/purchaser/Client so as to avoid theft etc.
28. Measurement & Payment terms:

The method of measurement of completed work shall be in accordance with the standard measurement. Payment will be made on satisfactory completion of work as per the order. Interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements in the format of HLL. All such interim payments shall be regarded as payment by way of advances against final payment only, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re erected. Any certificate given by the officer relating to the work done or materials delivered forming part of such payment, may be modified, or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evident that any work or material so which it relates is /are in accordance with the contract and certificate. Any such interim payment,/any part there of shall not in any respect conclude, determine or affect in any way powers of the engineer in charge under the contract or any of such payment/s be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

29. The Quantity shown in the schedule is an approximate estimated quantity. No rate revision will be entertained if the quantity increases/decreases due to the site condition while executing the work.
30. Water and Electricity: The contractor shall make his own arrangement for water and electricity required for the works. HLL will not be responsible for the supply of either electricity or water.
31. During the execution of work, the contractor or authorized representative/s at least one person having technical qualification should be present at site.
32. The contractor shall comply with by-laws and regulation of local and statutory authorities having jurisdiction over the work and shall be responsible for payment of all statutory fees and other charges and the giving and receiving of all necessary notices and the purchaser/Client shall be kept informed of the said compliances with by-laws, payment made, notices issued and received. All statutory payments shall be made by the Contractor and the same will be reimbursed by HLL on producing original challans/receipts.

33. Electrical

The work shall be carried out by a contractor holding valid licence issued by the State Government/Competent Authority for carrying out installation work of all voltage classes involved, under direct supervision of the persons holding valid certificates issued or recognized by the state government/competent authority.

34. Final payment shall be paid only after clearing the site as per direction of Engineer-in-charge/ Officer in charge.



**SCHEDULE IV****FORMS AND DECLARATIONS****CONTENTS**

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**APPLICATION FOR PREQUALIFICATION**

**Name of Work:-** Civil and Electrical Works for the construction of Health & Wellness Centre at various Districts in Faridabad Region, Haryana

A. Name of Contractor/Firm/Company:

1. Postal address:

2. Telephone No.:    FAX :

E-Mail :

PAN No :    GST No :

UAM Number (Only for MSME bidder) :

EPF No:

3. Year of commencement of Contract/Year of establishment of firm/Company :

B. In the case of Firm

1. Whether proprietary or partnership firm:
2. Name of Managing Partner:
3. Name of other partners:

Note: Attested copy of partnership deed to be enclosed

C. In the case of Company

1. Whether Private Limited or Public Limited Company:
2. Name of Managing Director:
3. Names of other Directors:

Note: Attested copy of Company Registration deed to be enclosed.

D. Tenderer should have satisfactorily completed at least similar works of following values during the last 5 years, ending 30-10-2018:-

- |   |    |
|---|----|
| iv. One similar work of value not less than Rs 37 Lakhs         | Or |
| v. Two similar works, each of value not less than Rs 28 Lakhs   | Or |
| vi. Three similar works each of value not less than Rs 18 Lakhs |    |

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

Note: Details to be furnished in **Annexure I A**

- E. Total number of ongoing installations or orders in hand for similar Civil and Electrical works

Note: Details to be furnished in **Annexure II**

- F. Has the Contractor/ Firm/Company ever been black listed by the Govt. /or the registering authority. (Yes/ No)

a. If so, give the period and details.

- G. Average annual financial turnover of the bidder during the last 3 years, ending 31st March of the previous financial year, should be at least INR 35 Lakhs.

a. Annualized turnover of the Contractor/Firm/Company in the last 3 years ending 31.03.2018

|    |            |      |
|----|------------|------|
| 1. | 2015-2016: | INR. |
| 2. | 2016-2017: | INR. |
| 3. | 2017-2018: | INR. |

Note: Details to be furnished in **Annexure III**

- H. Details of organization: (Details to be enclosed in **Annexure IV**)

1. Technical personnel: i) No. of Graduate Engineers: ii) No. of Diploma Holders:  
2. Non Technical Management

- I. Detailed Technical Specifications in **Annexure V** (filled and enclosed)

- J. Completion Period: in **Annexure VI** (filled and enclosed)

- K. Acceptance Form in **Annexure VII**

- L. CERTIFICATE as per **Annexure VIII**

I/We hereby confirm that the details given in the application form and Annexure I to Annexure VIII are correct to the best of my/our knowledge. I /We have no objection, in Client (HLL Lifecare Limited) contacting any of our clients for reference.

Place:

Signature

Date:

Name and address of the Party

**ANNEXURE – I**

| <b>DETAILS OF ORDERS FOR SIMILAR WORKS SUCCESSFULLY COMPLETED<br/>DURING THE LAST 5 YEARS<br/>(ENCLOSE COMPLETION CERTIFICATES FROM CLIENTS)</b> |  |                                     |                         |   |
|--|--|-------------------------------------|-------------------------|---|
| Sl. No.  | Name of Client with full address, telephone numbers and nature of work | Order details such as quantity etc. | Value of work completed | Period of Completion with dates (in months) |
|  |  |                                     |                         |   |

**NOTE:**

**TENDERER SHOULD HAVE SATISFACTORILY COMPLETED ATLEAST**

1. One similar work of value not less than Rs 37 Lakhs  
Or
2. Two similar works, each of value not less than Rs 28 Lakhs  
Or
3. Three similar works each of value not less than Rs 18 Lakhs

Completion certificates for works issued by Clients shall be submitted.

**SIGNATURE OF BIDDER**

**ANNEXURE - II**

| <b>TOTAL NUMBER OF ONGOING ORDERS IN HAND FOR SIMILAR CIVIL AND ELECTRICAL WORKS</b> |   |   |                       |
|--|---|---|-----------------------|
| <b>SL. No.</b>   | <b>Name of Client with full address, telephone numbers and nature of work</b> | <b>Order details such as quantity, completion time etc.</b> | <b>Value of works</b> |
|  |   |   |                       |

**SIGNATURE OF BIDDER**

**ANNEXURE III**

**(ENCLOSE DETAILS OF ANNUALISED TURN OVER OF THE CONTRACTOR/FIRM/COMPANY IN THE LAST 3 YEARS ENDING 31-03-2018)**

2015-2016: INR.

2016-2017: INR.

2017-2018: INR.

**(Enclose audited Balance sheets in proof for the above period)**

**SIGNATURE OF BIDDER**

**Note:** Average annual financial turn over of the bidder during the last 3 years, ending 31st March of the previous financial year, should be at least INR 35 Lakhs.

**ANNEXURE-IV**

**DETAILS OF ORGANIZATION**

| Sl. No | Name & Postal Address                    | Date of Birth | Qualification | Total experience in years | Name of organization served showing position held and period of service in each position |
|--------|--|---------------|---------------|---------------------------|--|
| 1.     | <b>A.ENGINEERING PERSONNELS</b>          |               |               |                           |  |
| 2      |  |               |               |                           |  |
| 3.     |  |               |               |                           |  |
| 4      |  |               |               |                           |  |
| 5.     |  |               |               |                           |  |
| 6      |  |               |               |                           |  |
| 1.     | <b>B. DIPLOMA HOLDERS/ ITI PERSONNEL</b> |               |               |                           |  |
| 2      |  |               |               |                           |  |

Attach an organization chart. Also mention the no. of engineering/technical personnel you will engage for the satisfactory completion of the tendered work.

**SIGNATURE OF BIDDER**

**ANNEXURE V**

**(ENCLOSE DETAILED TECHNICAL SPECIFICATION OF ITEMS QUOTED AGAINST THIS TENDER, INCLUDING MAKES, DETAILED CATALOGUES, WARRANTY PERIOD ETC.)**

**NOTE: THE BIDDER SHOULD ALSO INDICATE DEVIATIONS, IF ANY FROM THE TENDER SPECIFICATIONS**

**SIGNATURE OF THE BIDDER WITH SEAL**



**ANNEXURE-VI**

**COMPLETION PERIOD**

**SIGNATURE OF THE BIDDER WITH SEAL**

Note :

- 1) Time of completion allowed is 12 weeks for each Location from the date of acceptance of Notification of Award/site clearance, whichever is later.
- 2) The bidder shall prepare a detailed program for completion with proper WBS (Work break down schedule) such that the work can be completed within the stipulated time period. (Preferably be given in MS Projects/ Primavera)

**ANNEXURE VII**

**ACCEPTANCE FORM**

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

From

To

**SENIOR MANAGER (PROJECTS),**

Projects Division,

HLL Lifecare Limited (A Government of India Enterprise)

Corporate Head Office, Poojappura.P.O,

Thiruvananthapuram – 695012,

Kerala, India

Phn: 0471- 2354949, 2775588

E-mail: [harikrishnankp@lifecarehll.com](mailto:harikrishnankp@lifecarehll.com), choprojects@lifecarehll.com

Dear Sir,

I / We, hereby offer to supply/install/testing/validate/commission as detailed in schedule hereto or such portion thereof as you may specify in the acceptance of Bid at the price given in the price bid and agree to hold this offer open for **18 months** from the date of bid opening prescribed by the Purchaser. I/We have understood the terms and conditions mentioned in the invitation for bid and Conditions of Contract furnished by you and have thoroughly examined the specifications quoted in the bid document hereto and are fully aware of the nature of the scope of work required and my/our offer is to comply strictly in accordance with the requirement and the terms and conditions mentioned above.

The following pages have been added to and form part of this bid.

Yours faithfully,

**SIGNATURE OF THE BIDDER WITH SEAL**

**ANNEXURE VIII**

**CERTIFICATE**

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

I / we hereby confirm that the information given with this bidding document is correct. If, at any stage, it is found to be incorrect, I / we understand that the contract will be liable to be terminated and action could be taken against me/us by the Company for damages.

**SIGNATURE (S) OF BIDDER WITH SEAL**

**CHECK LIST FOR TECHNICAL BID**

| <b>Sl. No.</b> | <b>Item</b>  | <b>Yes/No</b> | <b>Remarks</b> |
|----------------|--|---------------|----------------|
| 1              | Enclosed EMD as prescribed in the tender   |               |                |
| 2              | Application of Pre-qualification duly filled, signed and sealed by the tenderer                    |               |                |
| 3              | Enclosed work order and completion certificates in proof of experience – <b>Annexure I</b>         |               |                |
| 4              | Enclosed details of ongoing installations or orders in hand for similar works - <b>Annexure II</b> |               |                |
| 5              | Enclosed Turnover Details – <b>Annexure III</b>  |               |                |
| 6              | Enclosed Details of Organization – <b>Annexure IV</b>  |               |                |
| 7              | Enclosed Technical Specification including Makes, Catalogue etc. – <b>Annexure V</b>               |               |                |
| 8              | Attached Completion Period – <b>Annexure VI</b>  |               |                |
| 9              | Enclosed signed and sealed Acceptance Form – <b>Annexure VII</b>                                   |               |                |
| 10             | Enclosed Certificate signed and sealed – <b>Annexure VIII</b>                                      |               |                |

**SIGNATURE OF THE BIDDER WITH SEAL**

## **SCHEDULE V**

### **PRICE BID**

*(To be submitted in separate sealed covers super-scribing "Price Bid" inside a main cover.)*

#### **ABSTRACT: PRICE BID**

**Name of work:** Civil and Electrical Works for the construction of Health & Wellness Centre at various Districts in Faridabad Region, Haryana

| <b>SI No.</b> | <b>Name of District including number of locations in Faridabad Region</b> | <b>Total Amount Quoted (including GST @18%) (Rs)</b> |
|---------------|---|--|
| <b>1</b>      | <b>Faridabad District</b>   |  |
| <b>2</b>      | <b>Palwel District</b>  |  |
| <b>3</b>      | <b>Nuh District</b>   |  |

Note:

- The eligible bidder should quote for all locations from each district/s. The work shall be awarded to the qualified bidder, who quotes the lowest amount for each of the district.
- Bidder shall clearly mention whether the GST included or excluded with % in the price bid. If specific indication of GST is not mentioned, then their quoted rate will be treated as inclusive of GST.
- Bidder has to quote as per the schedule of work specified in the BOQ, proposed to use for the project, and has to mark the Make/Brand in the quote/technical/price schedule.

**SEAL OF THE TENDERER**

**Date:**

**SIGNATURE**  
**Name and Address**

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
|--------|--|---------|------|------|--------|
|        | <b>CIVIL WORKS</b>   |         |      |      |        |
|        | <b>EARTHWORK</b>   |         |      |      |        |
| 1      | Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.   | 240.00  | M2   |      |        |
| 2      | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.   | 240.00  | M2   |      |        |
| 3      | 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.   | 120.00  | M3   |      |        |
| 4      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating Each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | 260.00  | M3   |      |        |
| 5      | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.  | 13.00   | M3   |      |        |
|        | <b>CEMENT CONCRETE</b>   |         |      |      |        |
| 6      | 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)   | 13.00   | M3   |      |        |
|        | <b>R.C.C.WORK</b>  |         |      |      |        |
| 7      | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).   | 18.00   | M3   |      |        |
| 8      | Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers  | 50.00   | M2   |      |        |
| 9      | Suspended floors, roofs, landings, balconies and access platform   | 150.00  | M2   |      |        |
| 10     | Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)  | 120.00  | M2   |      |        |
| 11     | 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). | 15.00   | M3   |      |        |
| 12     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 3000.00 | KG   |      |        |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| <b>SL No.</b> | <b>DESCRIPTION</b>  | <b>QTY</b> | <b>UNIT</b> | <b>RATE</b> | <b>AMOUNT</b> |
|---------------|---|------------|-------------|-------------|---------------|
|               | <b>STEEL WORK</b>   |            |             |             |               |
| 13            | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).  | 10.00      | KG          |             |               |
| 14            | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.   | 300.00     | KG          |             |               |
| 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. Electric resistance or induction butt welded tubes  | 200.00     | KG          |             |               |
|               | <b>ALUMINUM WORK</b>  |            |             |             |               |
| 16            | Providing, fabricating and fixing in position colour anodised aluminium sections of various profiles including louvers, subframes, etc in roof monitor or in other places made out of approved manufacturer section all complete as directed. The rate should also includes providing PU sealent in both inside and outside   | 30.00      | KG          |             |               |
| 17            | Providing and fixing aluminum 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. Aluminum sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineerin-charge. (Glazing, paneling and dash fasteners to be paid for separately): For fixed portion. Anodized aluminum (anodized transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). The rate should also includes providing PU sealent in both inside and outside | 150.00     | KG          |             |               |
| 18            | S/F 100mm brass lock for aluminium door including necessary cutting and making good etc. complete   | 2.00       | Each        |             |               |
| 19            | Providing and fixing aluminium tower bolts (100*10mm) 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 :  | 2.00       | Each        |             |               |
| 20            | Providing and fixing glazing in aluminum 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 aluminum snap beading shall be paid in basic item): With float glass panes of 5.5   | 20.00      | M2          |             |               |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|--------|--|-------|------|------|--------|
| 21     | Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for  | 10.00 | KG   |      |        |
| 22     | Providing and fixing aluminum tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc. complete as per direction of Engineerin-Charge. Anodized (AC 15 ) aluminum tubular handle bar  | 4.00  | Each |      |        |
| 23     | 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. With twin rubber stopper   | 2.00  | Each |      |        |
| 24     | Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With Brass cover Plate  | 2.00  | Each |      |        |
| 25     | Providing and fixing 12 mm thick pre laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling 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-inCharge. Pre-laminated particle board with decorative lamination on both sides   | 12.00 | M2   |      |        |
| 26     | 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 ( $\pm 0.2$ 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 ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ 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 ( $\pm 0.1$ 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). | 4.00  | M2   |      |        |



**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| SL No.         | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|----------------|--|-------|------|------|--------|
| 27             | Providing and fixing factory made uPVC white colour casement/ casement cum fixed glazed windows comprising of uPVC multi multichambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm). | 6.00  | M2   |      |        |
| 28             | Providing and fixing factory made uPVC door frame made of Upvc extruded sections having an overall dimension as below (tolerance ± 1mm), with wall thickness 2.0 mm (± 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 1mm (± 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 42x50 mm  | 30.00 | RM   |      |        |
| <b>ROOFING</b> |  |       |      |      |        |
| 29             | Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete. 0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>  | 10.00 | RM   |      |        |
| 30             | Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.   | 24.00 | M2   |      |        |

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**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| <b>SL No.</b> | <b>DESCRIPTION</b>  | <b>QTY</b> | <b>UNIT</b> | <b>RATE</b> | <b>AMOUNT</b> |
|---------------|---|------------|-------------|-------------|---------------|
|               | <b>PATHWAY</b>  |            |             |             |               |
| 31            | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | 120.00     | M2          |             |               |
|               | <b>MASONRY WORK</b>   |            |             |             |               |
| 32            | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)   | 21.00      | M3          |             |               |
| 33            | 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 1:3 (1 cement :3 coarse sand)  | 380.00     | M2          |             |               |
|               | <b>FLOORING</b>   |            |             |             |               |
| 34            | Providing and fixing 1st quality ceramic glazed floor 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.  | 200.00     | M2          |             |               |
| 35            | 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.   | 120.00     | M2          |             |               |
| 36            | 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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile  | 10.00      | M2          |             |               |
| 37            | 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), joints 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 | 5.00       | M2          |             |               |
|               | <b>PLASTERING</b>   |            |             |             |               |
| 38            | 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)   | 1200.00    | M2          |             |               |

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| Sub:                | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.</b>   |         |      |      |        |
|---------------------|--|---------|------|------|--------|
| SL No.              | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
| 39                  | Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge (payment for providing grooves shall be made separately). | 120.00  | M2   |      |        |
| <b>PAINTING</b>     |  |         |      |      |        |
| 40                  | Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work   | 10.00   | M2   |      |        |
| 41                  | 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   | 1800.00 | M2   |      |        |
| 42                  | Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture   | 26.00   | M2   |      |        |
| 43                  | 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   | 32.00   | M2   |      |        |
| 44                  | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.  | 1800.00 | M2   |      |        |
| 45                  | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete   | 10.00   | M2   |      |        |
| 46                  | Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface  | 10.00   | M2   |      |        |
| <b>REPAIR WORKS</b> |  |         |      |      |        |
| 47                  | Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.   | 1.00    | M3   |      |        |
| 48                  | Dismantling the existing RCC concrete including cutting the reinforcement, stacking the useful materials as directed by engineer-in-charge, dumping the dismantled debris as indicated at site, leveling, consolidating, all complete as directed and disposal of debris away from site all complete.  | 1.00    | M3   |      |        |
| 49                  | Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.  | 6.00    | M2   |      |        |
| 50                  | 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 |      |        |
| 51                  | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)  | 10.00   | M2   |      |        |

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| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|--------|---|--------|------|------|--------|
| 52     | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length ( hold fast lugs or dash fastener shall be paid for separately). Kiln seasoned and chemically treated hollock wood   | 0.20   | M3   |      |        |
| 53     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | 18.00  | M2   |      |        |
| 54     | Renewing glass panes, with wooden fillets wherever necessary: Float glass panes of thickness 4 mm   | 6.00   | M2   |      |        |
| 55     | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.   | 10.00  | M2   |      |        |
| 56     | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e).The whole | 120.00 | M2   |      |        |
| 57     | Dismantling Tile Flooring and Walls & Roof and disposing the debris away from site all complete as directed.  | 12.00  | M2   |      |        |

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|--------|---|-------|------|------|--------|
| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
|        | <b>DESIGN PRINTED TILES</b>   |       |      |      |        |
| 58     | Providing and laying required size of glazed tiles with DESIGN PRINTED for display of Logo (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)   | 8.00  | M2   |      |        |
| 59     | Providing and laying required size of glazed tiles with DESIGN PRINTED for Windows & Door Borders (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)  | 18.00 | M2   |      |        |
|        | <b>PLUMBING</b>   |       |      |      |        |
| 60     | Renewing and repairing plumbing & sanitary items in toilets including making good all damages WC Seat, Gully Trap, Pipe Lines, Flush cistern, flush pipes, PVC pillar taps, PVC Waste Pipes, Pipelines, gate valve and Gratings of approved brand and manufacturer.   | 1.00  | LS   |      |        |
| 61     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality -25MM   | 4.00  | Each |      |        |
| 62     | Providing and fixing C.P. brass angle valve for basin mixer and geyserpoints of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc..  | 2.00  | Each |      |        |
| 63     | Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.   | 1.00  | Each |      |        |
| 64     | Providing and fixing trap of self cleansing design with screwed down orhinged grating with or without vent arm complete, including cost of cuttingand making good the walls and floors :100 mm inlet and 100 mm outlet  | 1.00  | Each |      |        |
| 65     | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S designation 7.5 | 1.00  | Each |      |        |
| 66     | Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design   | 4.00  | Each |      |        |

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|--------|---|-------|------|------|--------|
| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
| 67     | 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 fixturescomplete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid  | 4.00  | Each |      |        |
| 68     | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including paintingof fittings and brackets, cutting and making good the walls whereverrequire:White Vitreous China Wash basin size 630x450 mm with apair of 15 mm C.P. brass pillar taps   | 4.00  | Each |      |        |
|        | 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 |       |      |      |        |
| 69     | 20 mm nominal outer dia .Pipes  | 90.00 | RM   |      |        |
| 70     | 32 mm nominal outer dia Pipes   | 90.00 | RM   |      |        |
| 71     | 50 mm nominal outer dia Pipes   | 24.00 | RM   |      |        |
|        | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as perIS: 13983 with C.I. brackets and stainless steel plug 40 mm, includingpainting of fittings and brackets, cutting and making good the wallswherever required ::(Lowest retail price of sink not less than Rs. 3150)   |       |      |      |        |
| 72     | Kitchen sink without drain board,Size -610x510 mm bowl depth 200 mm   | 2.00  | Each |      |        |
| 73     | Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia  | 6.00  | Each |      |        |
| 74     | Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc.,,  | 6.00  | Each |      |        |
| 75     | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 2.00  | Each |      |        |
| 76     | 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.  | 4.00  | Each |      |        |
| 77     | 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.  | 4.00  | Each |      |        |
| 78     | 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.   | 4.00  | Each |      |        |
| 79     | Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.  | 4.00  | Each |      |        |
|        | Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid   |       |      |      |        |
| 80     | 150 mm nominal size square 100 mm diameter of the inner hinged round grating  | 4.00  | Each |      |        |

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| SL No. | DESCRIPTION  | QTY     | UNIT  | RATE | AMOUNT |
|--------|--|---------|-------|------|--------|
| 81     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank   | 1500.00 | LITRE |      |        |
| 82     | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore  | 30.00   | Each  |      |        |
|        | <b>MISCELLANEOUS</b>   |         |       |      |        |
| 83     | Window & Door Curtain  |         |       |      |        |
|        | Two range of curtain cloth –Both for doors, windows and partions. Assorted colours plain & prints,Stitched as per site/ size requirement,Minor modifications in stitching as per site/ size requirement,Preferred colour (Brown, Cream, Beige),Curtain price (including cloth & curtain rod) to be quoted in Squire metre,Stitching for Each curtain to be absorb in the price of the cloth generally 2 meters.Fast colours, water wash,Fabric density Non Transparent Composition .Fabric of curtain shall be soft texture, great shading, drape effect and nice doobby.The bracket shall be side mounted and front mounted as required. First rod mount is 3.5 inches from the wall.Where curtain used as a partition/ long length, sufficient support from ceiling should be provided to avoid sagging.Rate quoted for fully stitched Curtain with top nepha with punch holes after lining bucramreinforced with SS / PVC islets and lower nepha 200mm double turned.   |         |       |      |        |
|        | Curtain fabric weight shall be up to 250-275 ( ± 5%) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be (±5%) Weft and warp shall be polyester / cotton polyester mix   | 20.00   | M2    |      |        |
| 84     | Provide all final cleaning including for the Work of assigned Contractors and remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.  | 1.00    | LS    |      |        |
| 85     | Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and | 10.00   | M2    |      |        |

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| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|--------|---|--------|------|------|--------|
|        | (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.   |        |      |      |        |
| 86     | Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places. Note:- 2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories (1) Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr (2) Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml. (3) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml (4) Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm 501.4-09 | 20.00  | M2   |      |        |
| 87     | Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).   | 150.00 | KG   |      |        |



**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY  | UNIT | RATE | AMOUNT |
|--------|--|------|------|------|--------|
| 88     | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. “ (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2)“For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.“ (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.   | 2.00 | M2   |      |        |
| 89     | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 - point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.   | 2.00 | M2   |      |        |
| 90     | Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (Each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled | 5.00 | M2   |      |        |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

|               |  |            |             |             |               |
|---------------|--|------------|-------------|-------------|---------------|
| <b>Sub:</b>   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.</b>   |            |             |             |               |
| <b>SL No.</b> | <b>DESCRIPTION</b>   | <b>QTY</b> | <b>UNIT</b> | <b>RATE</b> | <b>AMOUNT</b> |
|               | <b>ELECTRICAL WORKS</b>  |            |             |             |               |
| 1             | <b>Point wiring in PVC conduit with modular type switch.</b>   |            |             |             |               |
|               | 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 PVC , 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. |            |             |             |               |
|               | Group C  | 48         | Point       |             |               |
| 2             | <b>Wiring through PVC conduit</b>  |            |             |             |               |
|               | Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.(Make:Havells/Finolex/V -guard/Polycab)  |            |             |             |               |
| a             | 2X1.5 sq.mm + 1X1.5 sq.mm earth wire   | 300        | Metre       |             |               |
| b             | 2X2.5 sq.mm + 1 X2.5 sq mm earth wire  | 100        | Metre       |             |               |
| c             | 2X4 sq.mm + 1X4 sq.mm earth wire   | 170        | Metre       |             |               |
| 3             | <b>Telephone wiring in existing conduit:</b>   |            |             |             |               |
|               | Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.   |            |             |             |               |
| a             | 2 Pair   | 20         | Metre       |             |               |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

| Sub:  | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.</b>   |     |       |      |        |
|---|--|-----|-------|------|--------|
| SL No.  | DESCRIPTION  | QTY | UNIT  | RATE | AMOUNT |
| 4   | <b>A/C point</b>   |     |       |      |        |
|   | <b>S/F 20A SPN MCB industrial socket outlet:</b><br>Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells /HPL) | 4   | Point |      |        |
| 5   | <b>Modular type blanking plate:</b>  |     |       |      |        |
|   | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.(Make: Legrand/Havells/HPL)   | 4   | Each  |      |        |
| 6   | <b>Modular boxes, bases &amp; cover plate:</b>   |     |       |      |        |
|   | Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.(Make: Legrand/Havells/HPL)   |     |       |      |        |
| a   | 2 module   | 10  | Each  |      |        |
| b   | 3 module   | 60  | Each  |      |        |
| c   | 4 module   | 10  | Each  |      |        |
| d   | 6 module   | 60  | Each  |      |        |
| e   | 8 module   | 20  | Each  |      |        |
| f   | 12 module  | 20  | Each  |      |        |
| 7   | <b>Modular type switch/socket:</b>   |     |       |      |        |
|   | Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. (Make: Legrand/Havells/HPL)   |     |       |      |        |
| a   | 5/6 Amps switch  | 60  | Each  |      |        |
| b   | 3 pin 5/6 Amp socket outlet  | 60  | Each  |      |        |
| c   | 15/16 Amps switch  | 30  | Each  |      |        |
| d   | 6pin 15/16 Amps (universal) socket outlet  | 30  | Each  |      |        |
| e   | Telephone socket outlet  | 2   | Each  |      |        |
| 8   | <b>S/F PVC conduit:</b>  |     |       |      |        |
|   | 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)  |     |       |      |        |
| a   | 20 mm  | 200 | Metre |      |        |
| b   | 25 mm  | 10  | Metre |      |        |
| <b>Installation Testing &amp; Commissioning</b> |  |     |       |      |        |
| 9   | <b>ITC Fluorescent fitting directly on surface:</b><br>Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.  | 30  | Each  |      |        |
| 10  | <b>ITC Ceiling fan:</b><br>Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.  | 30  | Each  |      |        |
| 11  | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.   | 30  | Each  |      |        |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

| Sub:   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.</b>  |     |       |      |        |
|--------|---|-----|-------|------|--------|
| SL No. | DESCRIPTION   | QTY | UNIT  | RATE | AMOUNT |
| 12     | <b>LAYING OF CABLES</b>   |     |       |      |        |
|        | <b>CABLE LAYING</b>   |     |       |      |        |
|        | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size clamped on wall surface with 1mm thick saddles as required complete.   |     |       |      |        |
| a      | FROM Mains TO DB  |     |       |      |        |
|        | 4 X 10 sq.mm  | 20  | Metre |      |        |
| 13     | <b>END TERMINATION</b>  |     |       |      |        |
|        | Supply and making end termination with brass compression gland, earth clip and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable fo 1.1KV grade as required.   |     |       |      |        |
|        | 4 X 10 sq.mm  | 4   | Each  |      |        |
| 14     | <b>S/F VERTICAL DISTRIBUTION BOX</b>  |     |       |      |        |
|        | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phaseoutlets are required.) |     |       |      |        |
| 14.1   | 4 way (4 + 12), Double door   | 4   | Each  |      |        |
| 15     | <b>S/F of SPN MCB PDB</b>   |     |       |      |        |
|        | 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)  |     |       |      |        |
| a      | 6 way Double door, horizontal type  | 5   | Each  |      |        |
| b      | 16 way Double door ,horizontal type   | 10  | Each  |      |        |
| 16     | <b>S/F OF SP MCB</b>  |     |       |      |        |
|        | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.  |     |       |      |        |
|        | 6/32 A SP MCB   | 10  | Each  |      |        |
| 17     | <b>S/F DP ISOLATOR</b>  |     |       |      |        |
|        | Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, ISOLATOR having a sensitivity current upto 100 to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc, as required.(Make: Legrand/ Havells/HPL)   |     |       |      |        |
|        | 40 A  | 2   | Each  |      |        |
| 17.1   | <b>S/F FP ISOLATOR</b>  |     |       |      |        |
|        | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required  |     |       |      |        |
| 17.1.a | 40A   | 2   | Each  |      |        |
| 17.1.b | 63A   | 2   | Each  |      |        |
| 18     | <b>S/F FP RCCB</b>  |     |       |      |        |
|        | Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.   |     |       |      |        |
| 18.1   | 63 A  | 1   | Each  |      |        |

**SCHEDULE OF WORK- FARIDABAD DISTRICT**

**SCHEDULE V A**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Faridabad District of Faridabad Region, Haryana - reg.**

| SL No.  | DESCRIPTION  | QTY | UNIT  | RATE       | AMOUNT |
|---|--|-----|-------|------------|--------|
| 19  | <b>EARTHING</b>  |     |       |            |        |
| a   | Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.                            | 1   | Set   |            |        |
| b   | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.  | 20  | Metre |            |        |
| 20  | Supply of 15W LED tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W LED lamp etc complete as required. <b>(Philips / Wipro /HAVELLS)</b> | 30  | Each  |            |        |
| 21  | Supply and installation of 18 W CFL with its all accessories.[ISI MAKE]  | 30  | Each  |            |        |
| 22  | Supply and installation of wall fan, white colour, 5 star rated as per BEE complete with blades, casing , wall mounting accessories etc(Make Havells/bajaj/usha/V-guard/crompton)  | 2   | Each  |            |        |
| 23  | Supply and installation EXHAUST FAN,SHUTTER TYPE white colour, 9" OR 10" star rated as per BEE complete with its all accessories(Make Havells/bajaj/usha/V-guard)  | 4   | Each  |            |        |
| <b>Total Civil and Electrical work)</b>                           |  |     |       | <b>Rs.</b> |        |
| <b>GST @ 18%</b>  |  |     |       | <b>Rs.</b> |        |
| <b>Grand Total for Faridabad District (In Rs. Incl. GST @18%)</b> |  |     |       | <b>Rs.</b> |        |

**I agree to execute the works as per the rates quoted above**

**Signature of Bidder**

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

| Sub:   | Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.   |         |      |      |        |
|--------|--|---------|------|------|--------|
| SL No. | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
|        | <b>CIVIL WORKS</b>   |         |      |      |        |
|        | <b>EARTHWORK</b>   |         |      |      |        |
| 1      | Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.   | 240.00  | M2   |      |        |
| 2      | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.   | 240.00  | M2   |      |        |
| 3      | 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.   | 120.00  | M3   |      |        |
| 4      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating Each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | 260.00  | M3   |      |        |
| 5      | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.  | 13.00   | M3   |      |        |
|        | <b>CEMENT CONCRETE</b>   |         |      |      |        |
| 6      | 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)   | 13.00   | M3   |      |        |
|        | <b>R.C.C.WORK</b>  |         |      |      |        |
| 7      | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).   | 18.00   | M3   |      |        |
| 8      | Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers  | 50.00   | M2   |      |        |
| 9      | Suspended floors, roofs, landings, balconies and access platform   | 150.00  | M2   |      |        |
| 10     | Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)  | 120.00  | M2   |      |        |
| 11     | 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). | 15.00   | M3   |      |        |
| 12     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 3000.00 | KG   |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

| Sub:   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.</b>   |        |      |      |        |
|--------|---|--------|------|------|--------|
| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|        | <b>STEEL WORK</b>   |        |      |      |        |
| 13     | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).  | 10.00  | KG   |      |        |
| 14     | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.   | 300.00 | KG   |      |        |
| 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. Electric resistance or induction butt welded tubes  | 200.00 | KG   |      |        |
|        | <b>ALUMINUM WORK</b>  |        |      |      |        |
| 16     | Providing, fabricating and fixing in position colour anodised aluminium sections of various profiles including louvers, subframes, etc in roof monitor or in other places made out of approved manufacturer section all complete as directed. The rate should also includes providing PU sealent in both inside and outside   | 30.00  | KG   |      |        |
| 17     | Providing and fixing aluminum 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. Aluminum sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineerin-charge. (Glazing, paneling and dash fasteners to be paid for separately): For fixed portion. Anodized aluminum (anodized transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). The rate should also includes providing PU sealent in both inside and outside | 150.00 | KG   |      |        |
| 18     | S/F 100mm brass lock for aluminium door including necessary cutting and making good etc. complete   | 2.00   | Each |      |        |
| 19     | Providing and fixing aluminium tower bolts (100*10mm) 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 :  | 2.00   | Each |      |        |
| 20     | Providing and fixing glazing in aluminum 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 aluminum snap beading shall be paid in basic item): With float glass panes of 5.5   | 20.00  | M2   |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|--------|--|-------|------|------|--------|
| 21     | Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for  | 10.00 | KG   |      |        |
| 22     | Providing and fixing aluminum tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc. complete as per direction of Engineerin-Charge. Anodized (AC 15 ) aluminum tubular handle bar  | 4.00  | Each |      |        |
| 23     | 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. With twin rubber stopper   | 2.00  | Each |      |        |
| 24     | Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With Brass cover Plate  | 2.00  | Each |      |        |
| 25     | Providing and fixing 12 mm thick pre laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling 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-inCharge. Pre-laminated particle board with decorative lamination on both sides   | 12.00 | M2   |      |        |
| 26     | 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 ( $\pm 0.2$ 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 ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ 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 ( $\pm 0.1$ 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). | 4.00  | M2   |      |        |



**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.**

| SL No.         | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|----------------|--|-------|------|------|--------|
| 27             | Providing and fixing factory made uPVC white colour casement/ casement cum fixed glazed windows comprising of uPVC multi multichambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm). | 6.00  | M2   |      |        |
| 28             | Providing and fixing factory made uPVC door frame made of Upvc extruded sections having an overall dimension as below (tolerance ± 1mm), with wall thickness 2.0 mm (± 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 1mm (± 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 42x50 mm   | 30.00 | RM   |      |        |
| <b>ROOFING</b> |  |       |      |      |        |
| 29             | Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete. 0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>  | 10.00 | RM   |      |        |
| 30             | Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.   | 24.00 | M2   |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

| Sub:   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.</b>   |         |      |      |        |
|--------|---|---------|------|------|--------|
| SL No. | DESCRIPTION   | QTY     | UNIT | RATE | AMOUNT |
|        | <b>PATHWAY</b>  |         |      |      |        |
| 31     | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | 120.00  | M2   |      |        |
|        | <b>MASONRY WORK</b>   |         |      |      |        |
| 32     | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)   | 21.00   | M3   |      |        |
| 33     | 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 1:3 (1 cement :3 coarse sand)  | 380.00  | M2   |      |        |
|        | <b>FLOORING</b>   |         |      |      |        |
| 34     | Providing and fixing 1st quality ceramic glazed floor 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.  | 200.00  | M2   |      |        |
| 35     | 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.   | 120.00  | M2   |      |        |
| 36     | 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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile  | 10.00   | M2   |      |        |
| 37     | 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), joints 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 | 5.00    | M2   |      |        |
|        | <b>PLASTERING</b>   |         |      |      |        |
| 38     | 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)   | 1200.00 | M2   |      |        |

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**SCHEDULE V B**

| Sub:                | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.</b>  |         |      |      |        |
|---------------------|--|---------|------|------|--------|
| SL No.              | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
| 39                  | Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge (payment for providing grooves shall be made separately). | 120.00  | M2   |      |        |
| <b>PAINTING</b>     |  |         |      |      |        |
| 40                  | Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work   | 10.00   | M2   |      |        |
| 41                  | 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   | 1800.00 | M2   |      |        |
| 42                  | Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture   | 26.00   | M2   |      |        |
| 43                  | 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   | 32.00   | M2   |      |        |
| 44                  | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.  | 1800.00 | M2   |      |        |
| 45                  | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete   | 10.00   | M2   |      |        |
| 46                  | Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface  | 10.00   | M2   |      |        |
| <b>REPAIR WORKS</b> |  |         |      |      |        |
| 47                  | Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.   | 1.00    | M3   |      |        |
| 48                  | Dismantling the existing RCC concrete including cutting the reinforcement, stacking the useful materials as directed by engineer-in-charge, dumping the dismantled debris as indicated at site, leveling, consolidating, all complete as directed and disposal of debris away from site all complete.  | 1.00    | M3   |      |        |
| 49                  | Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.  | 6.00    | M2   |      |        |
| 50                  | 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 |      |        |
| 51                  | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)  | 10.00   | M2   |      |        |

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|--------|---|--------|------|------|--------|
| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
| 52     | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Kiln seasoned and chemically treated hollock wood  | 0.20   | M3   |      |        |
| 53     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws   | 18.00  | M2   |      |        |
| 54     | Renewing glass panes, with wooden fillets wherever necessary: Float glass panes of thickness 4 mm   | 6.00   | M2   |      |        |
| 55     | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.   | 10.00  | M2   |      |        |
| 56     | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e).The whole | 120.00 | M2   |      |        |
| 57     | Dismantling Tile Flooring and Walls & Roof and disposing the debris away from site all complete as directed.  | 12.00  | M2   |      |        |

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| Sub:   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.</b>   |       |      |      |        |
|--------|---|-------|------|------|--------|
| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
|        | <b>DESIGN PRINTED TILES</b>   |       |      |      |        |
| 58     | Providing and laying required size of glazed tiles with DESIGN PRINTED for display of Logo (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)   | 8.00  | M2   |      |        |
| 59     | Providing and laying required size of glazed tiles with DESIGN PRINTED for Windows & Door Borders (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)  | 18.00 | M2   |      |        |
|        | <b>PLUMBING</b>   |       |      |      |        |
| 60     | Renewing and repairing plumbing & sanitary items in toilets including making good all damages WC Seat, Gully Trap, Pipe Lines, Flush cistern, flush pipes, PVC pillar taps, PVC Waste Pipes, Pipelines, gate valve and Gratings of approved brand and manufacturer.   | 1.00  | LS   |      |        |
| 61     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality -25MM   | 4.00  | Each |      |        |
| 62     | Providing and fixing C.P. brass angle valve for basin mixer and geyserpoints of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc..  | 2.00  | Each |      |        |
| 63     | Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.   | 1.00  | Each |      |        |
| 64     | Providing and fixing trap of self cleansing design with screwed down orhinged grating with or without vent arm complete, including cost of cuttingand making good the walls and floors :100 mm inlet and 100 mm outlet  | 1.00  | Each |      |        |
| 65     | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S designation 7.5 | 1.00  | Each |      |        |
| 66     | Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design   | 4.00  | Each |      |        |

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| Sub:   | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.</b>   |       |      |      |        |
|--------|---|-------|------|------|--------|
| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
| 67     | 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 fixturescomplete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid  | 4.00  | Each |      |        |
| 68     | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including paintingof fittings and brackets, cutting and making good the walls whereverrequire:White Vitreous China Wash basin size 630x450 mm with apair of 15 mm C.P. brass pillar taps   | 4.00  | Each |      |        |
|        | 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 |       |      |      |        |
| 69     | 20 mm nominal outer dia .Pipes  | 90.00 | RM   |      |        |
| 70     | 32 mm nominal outer dia Pipes   | 90.00 | RM   |      |        |
| 71     | 50 mm nominal outer dia Pipes   | 24.00 | RM   |      |        |
|        | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as perIS: 13983 with C.I. brackets and stainless steel plug 40 mm, includingpainting of fittings and brackets, cutting and making good the wallswherever required ::(Lowest retail price of sink not less than Rs. 3150)   |       |      |      |        |
| 72     | Kitchen sink without drain board,Size -610x510 mm bowl depth 200 mm   | 2.00  | Each |      |        |
| 73     | Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia  | 6.00  | Each |      |        |
| 74     | Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc.,   | 6.00  | Each |      |        |
| 75     | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 2.00  | Each |      |        |
| 76     | 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.  | 4.00  | Each |      |        |
| 77     | 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.  | 4.00  | Each |      |        |
| 78     | 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.   | 4.00  | Each |      |        |
| 79     | Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureka type W.C. of quality and make as approved by Engineer - in - charge.  | 4.00  | Each |      |        |
|        | Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid   |       |      |      |        |
| 80     | 150 mm nominal size square 100 mm diameter of the inner hinged round grating  | 4.00  | Each |      |        |

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|--------|--|---------|-------|------|--------|
| SL No. | DESCRIPTION  | QTY     | UNIT  | RATE | AMOUNT |
| 81     | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank   | 1500.00 | LITRE |      |        |
| 82     | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore  | 30.00   | Each  |      |        |
|        | <b>MISCELLANEOUS</b>   |         |       |      |        |
| 83     | Window & Door Curtain  |         |       |      |        |
|        | Two range of curtain cloth –Both for doors, windows and partions. Assorted colours plain & prints,Stitched as per site/ size requirement,Minor modifications in stitching as per site/ size requirement,Preferred colour (Brown, Cream, Beige),Curtain price (including cloth & curtain rod) to be quoted in Squire metre,Stitching for Each curtain to be absorb in the price of the cloth generally 2 meters.Fast colours, water wash,Fabric density Non Transparent Composition .Fabric of curtain shall be soft texture, great shading, drape effect and nice doobby.The bracket shall be side mounted and front mounted as required. First rod mount is 3.5 inches from the wall.Where curtain used as a partition/ long length, sufficient support from ceiling should be provided to avoid sagging.Rate quoted for fully stitched Curtain with top nepha with punch holes after lining bucramreinforced with SS / PVC islets and lower nepha 200mm double turned.   |         |       |      |        |
|        | Curtain fabric weight shall be up to 250-275 ( ± 5%) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be (±5%) Weft and warp shall be polyester / cotton polyester mix   | 20.00   | M2    |      |        |
| 84     | Provide all final cleaning including for the Work of assigned Contractors and remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.  | 1.00    | LS    |      |        |
| 85     | Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and | 10.00   | M2    |      |        |

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| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|--------|---|--------|------|------|--------|
|        | (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.   |        |      |      |        |
| 86     | Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places. Note:- 2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories (1) Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr (2) Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml. (3) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml (4) Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm 501.4-09 | 20.00  | M2   |      |        |
| 87     | Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).   | 150.00 | KG   |      |        |



**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY  | UNIT | RATE | AMOUNT |
|--------|--|------|------|------|--------|
| 88     | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessiccants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. “ (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2)“For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.“ (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.  | 2.00 | M2   |      |        |
| 89     | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 - point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.   | 2.00 | M2   |      |        |
| 90     | Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (Each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled | 5.00 | M2   |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

| Sub:                    | Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.   |     |       |      |        |
|-------------------------|--|-----|-------|------|--------|
| SL No.                  | DESCRIPTION  | QTY | UNIT  | RATE | AMOUNT |
| <b>ELECTRICAL WORKS</b> |  |     |       |      |        |
| 1                       | <b>Point wiring in PVC conduit with modular type switch.</b>   |     |       |      |        |
|                         | 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 PVC , 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.   |     |       |      |        |
|                         | Group C  | 48  | Point |      |        |
| 2                       | <b>Wiring through PVC conduit</b>  |     |       |      |        |
|                         | Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.(Make:Havells/Finolex/V-guard/Polycab)   |     |       |      |        |
| a                       | 2X1.5 sq.mm + 1X1.5 sq.mm earth wire   | 300 | Metre |      |        |
| b                       | 2X2.5 sq.mm + 1 X2.5 sq mm earth wire  | 100 | Metre |      |        |
| c                       | 2X4 sq.mm + 1X4 sq.mm earth wire   | 170 | Metre |      |        |
| 3                       | <b>Telephone wiring in existing conduit:</b>   |     |       |      |        |
|                         | Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.   |     |       |      |        |
| a                       | 2 Pair   | 20  | Metre |      |        |
| 4                       | <b>A/C point</b>   |     |       |      |        |
|                         | <b>S/F 20A SPN MCB industrial socket outlet:</b><br>Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells /HPL) | 4   | Point |      |        |
| 5                       | <b>Modular type blanking plate:</b>  |     |       |      |        |
|                         | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.(Make: Legrand/Havells/HPL)   | 4   | Each  |      |        |
| 6                       | <b>Modular boxes, bases &amp; cover plate:</b>   |     |       |      |        |
|                         | Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.(Make: Legrand/Havells/HPL)   |     |       |      |        |
| a                       | 2 module   | 10  | Each  |      |        |
| b                       | 3 module   | 60  | Each  |      |        |
| c                       | 4 module   | 10  | Each  |      |        |
| d                       | 6 module   | 60  | Each  |      |        |
| e                       | 8 module   | 20  | Each  |      |        |
| f                       | 12 module  | 20  | Each  |      |        |
| 7                       | <b>Modular type switch/socket:</b>   |     |       |      |        |
|                         | Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. (Make: Legrand/Havells/HPL)   |     |       |      |        |
| a                       | 5/6 Amps switch  | 60  | Each  |      |        |
| b                       | 3 pin 5/6 Amp socket outlet  | 60  | Each  |      |        |
| c                       | 15/16 Amps switch  | 30  | Each  |      |        |
| d                       | 6pin 15/16 Amps (universal) socket outlet  | 30  | Each  |      |        |
| e                       | Telephone socket outlet  | 2   | Each  |      |        |
| 8                       | <b>S/F PVC conduit:</b>  |     |       |      |        |
|                         | 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)  |     |       |      |        |
| a                       | 20 mm  | 200 | Metre |      |        |
| b                       | 25 mm  | 10  | Metre |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

| Sub:   | Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.  |     |       |      |        |
|--------|---|-----|-------|------|--------|
| SL No. | DESCRIPTION   | QTY | UNIT  | RATE | AMOUNT |
|        | <b>Installation Testing &amp; Commissioning</b>   |     |       |      |        |
| 9      | <b>ITC Fluorescent fitting directly on surface:</b><br>Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.                           | 30  | Each  |      |        |
| 10     | <b>ITC Ceiling fan:</b><br>Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.   | 30  | Each  |      |        |
| 11     | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.  | 30  | Each  |      |        |
| 12     | <b>LAYING OF CABLES</b>   |     |       |      |        |
|        | <b>CABLE LAYING</b>   |     |       |      |        |
|        | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size clamped on wall surface with 1mm thick saddles as required complete.   |     |       |      |        |
| a      | FROM Mains TO DB  |     |       |      |        |
|        | 4 X 10 sq.mm  | 20  | Metre |      |        |
| 13     | <b>END TERMINATION</b>  |     |       |      |        |
|        | Supply and making end termination with brass compression gland, earth clip and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable fo 1.1KV grade as required.   |     |       |      |        |
|        | 4 X 10 sq.mm  | 4   | Each  |      |        |
| 14     | <b>S/F VERTICAL DISTRIBUTION BOX</b>  |     |       |      |        |
|        | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phaseoutlets are required.) |     |       |      |        |
| 14.1   | 4 way (4 + 12), Double door   | 4   | Each  |      |        |
| 15     | <b>S/F of SPN MCB PDB</b>   |     |       |      |        |
|        | 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)  |     |       |      |        |
| a      | 6 way Double door, horizontal type  | 5   | Each  |      |        |
| b      | 16 way Double door ,horizontal type   | 10  | Each  |      |        |
| 16     | <b>S/F OF SP MCB</b>  |     |       |      |        |
|        | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.  |     |       |      |        |
|        | 6/32 A SP MCB   | 10  | Each  |      |        |
| 17     | <b>S/F DP ISOLATOR</b>  |     |       |      |        |
|        | Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, ISOLATOR having a sensitivity current upto 100 to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc, as required.(Make: Legrand/ Havells/HPL)   |     |       |      |        |
|        | 40 A  | 2   | Each  |      |        |

**SCHEDULE OF WORK- PALWEL DISTRICT**

**SCHEDULE V B**

**Sub:** Civil and Electrical Works for the construction of Health & Wellness Centre at Palwel District of Faridabad Region, Haryana - reg.

| SL No.   | DESCRIPTION   | QTY | UNIT  | RATE       | AMOUNT |
|--|---|-----|-------|------------|--------|
| 17.1   | <b>S/F FP ISOLATOR</b>  |     |       |            |        |
|  | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required  |     |       |            |        |
| 17.1.a   | 40A   | 2   | Each  |            |        |
| 17.1.b   | 63A   | 2   | Each  |            |        |
| 18   | <b>S/F FP RCCB</b>  |     |       |            |        |
|  | Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. |     |       |            |        |
| 18.1   | 63 A  | 1   | Each  |            |        |
| 19   | <b>EARTHING</b>   |     |       |            |        |
| a  | Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.                                   | 1   | Set   |            |        |
| b  | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.   | 20  | Metre |            |        |
| 20   | Supply of 15W LED tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W LED lamp etc complete as required. <b>(Philips / Wipro /HAVELLS)</b>        | 30  | Each  |            |        |
| 21   | Supply and installation of 18 W CFL with its all accessories.[ISI MAKE]   | 30  | Each  |            |        |
| 22   | Supply and installation of wall fan, white colour, 5 star rated as per BEE complete with blades, casing , wall mounting accessories etc(Make Havells/bajaj/usha/V-guard/crompton)   | 2   | Each  |            |        |
| 23   | Supply and installation EXHAUST FAN,SHUTTER TYPE white colour, 9" OR 10" star rated as per BEE complete with its all accessories(Make Havells/bajaj/usha/V-guard)   | 4   | Each  |            |        |
| <b>Total Civil and Electrical work)</b>                        |   |     |       | <b>Rs.</b> |        |
| <b>GST @ 18%</b>   |   |     |       | <b>Rs.</b> |        |
| <b>Grand Total for Palwel District (In Rs. Incl. GST @18%)</b> |   |     |       | <b>Rs.</b> |        |

I agree to execute the works as per the rates quoted above

**Signature of Bidder**

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.                 | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
|------------------------|--|---------|------|------|--------|
| <b>CIVIL WORKS</b>     |  |         |      |      |        |
| <b>EARTHWORK</b>       |  |         |      |      |        |
| 1                      | Surface dressing of the ground including removing vegetation and in equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.   | 240.00  | M2   |      |        |
| 2                      | Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.   | 240.00  | M2   |      |        |
| 3                      | 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.   | 120.00  | M3   |      |        |
| 4                      | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating Each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.  | 260.00  | M3   |      |        |
| 5                      | Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.  | 13.00   | M3   |      |        |
| <b>CEMENT CONCRETE</b> |  |         |      |      |        |
| 6                      | 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)   | 13.00   | M3   |      |        |
| <b>R.C.C.WORK</b>      |  |         |      |      |        |
| 7                      | Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III): 3 graded stone aggregate 20 mm nominal size).   | 18.00   | M3   |      |        |
| 8                      | Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers  | 50.00   | M2   |      |        |
| 9                      | Suspended floors, roofs, landings, balconies and access platform   | 150.00  | M2   |      |        |
| 10                     | Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured). Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)  | 120.00  | M2   |      |        |
| 11                     | 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). | 15.00   | M3   |      |        |
| 12                     | Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.  | 3000.00 | KG   |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.               | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|----------------------|---|--------|------|------|--------|
| <b>STEEL WORK</b>    |   |        |      |      |        |
| 13                   | Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).  | 10.00  | KG   |      |        |
| 14                   | Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.   | 300.00 | KG   |      |        |
| 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. Electric resistance or induction butt welded tubes  | 200.00 | KG   |      |        |
| <b>ALUMINUM WORK</b> |   |        |      |      |        |
| 16                   | Providing, fabricating and fixing in position colour anodised aluminium sections of various profiles including louvers, subframes, etc in roof monitor or in other places made out of approved manufacturer section all complete as directed. The rate should also includes providing PU sealent in both inside and outside   | 30.00  | KG   |      |        |
| 17                   | Providing and fixing aluminum 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. Aluminum sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminum snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineerin-charge. (Glazing, paneling and dash fasteners to be paid for separately): For fixed portion. Anodized aluminum (anodized transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15). The rate should also includes providing PU sealent in both inside and outside | 150.00 | KG   |      |        |
| 18                   | S/F 100mm brass lock for aluminium door including necessary cutting and making good etc. complete   | 2.00   | Each |      |        |
| 19                   | Providing and fixing aluminium tower bolts (100*10mm) 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 :  | 2.00   | Each |      |        |
| 20                   | Providing and fixing glazing in aluminum 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 aluminum snap beading shall be paid in basic item): With float glass panes of 5.5   | 20.00  | M2   |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|--------|--|-------|------|------|--------|
| 21     | Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for  | 10.00 | KG   |      |        |
| 22     | Providing and fixing aluminum tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc. complete as per direction of Engineerin-Charge. Anodized (AC 15 ) aluminum tubular handle bar  | 4.00  | Each |      |        |
| 23     | 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. With twin rubber stopper   | 2.00  | Each |      |        |
| 24     | Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With Brass cover Plate  | 2.00  | Each |      |        |
| 25     | Providing and fixing 12 mm thick pre laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in paneling 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-inCharge. Pre-laminated particle board with decorative lamination on both sides   | 12.00 | M2   |      |        |
| 26     | 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). | 4.00  | M2   |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.         | DESCRIPTION  | QTY   | UNIT | RATE | AMOUNT |
|----------------|--|-------|------|------|--------|
| 27             | Providing and fixing factory made uPVC white colour casement/ casement cum fixed glazed windows comprising of uPVC multi multichambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately) Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Casement window double panels with top fixed with S.S. friction hinges (350 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 2.50 sqm). | 6.00  | M2   |      |        |
| 28             | Providing and fixing factory made uPVC door frame made of Upvc extruded sections having an overall dimension as below (tolerance ± 1mm), with wall thickness 2.0 mm (± 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 1mm (± 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 42x50 mm   | 30.00 | RM   |      |        |
| <b>ROOFING</b> |  |       |      |      |        |
| 29             | Providing and fixing 15 cm wide, 45 cm overall semi-circular plain G.S. sheet gutter with iron brackets 40x3mm size, bolts, nuts and washers etc., including making necessary connections with rain water pipes complete. 0.63 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>  | 10.00 | RM   |      |        |
| 30             | Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.   | 24.00 | M2   |      |        |



**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.              | DESCRIPTION   | QTY     | UNIT | RATE | AMOUNT |
|---------------------|---|---------|------|------|--------|
| <b>PATHWAY</b>      |   |         |      |      |        |
| 31                  | Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.   | 120.00  | M2   |      |        |
| <b>MASONRY WORK</b> |   |         |      |      |        |
| 32                  | Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)   | 21.00   | M3   |      |        |
| 33                  | 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 1:3 (1 cement :3 coarse sand)  | 380.00  | M2   |      |        |
| <b>FLOORING</b>     |   |         |      |      |        |
| 34                  | Providing and fixing 1st quality ceramic glazed floor 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.  | 200.00  | M2   |      |        |
| 35                  | 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.   | 120.00  | M2   |      |        |
| 36                  | 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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile  | 10.00   | M2   |      |        |
| 37                  | 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), joints 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 | 5.00    | M2   |      |        |
| <b>PLASTERING</b>   |   |         |      |      |        |
| 38                  | 15 mm cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)   | 1200.00 | M2   |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.              | DESCRIPTION  | QTY     | UNIT | RATE | AMOUNT |
|---------------------|--|---------|------|------|--------|
| 39                  | Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge (payment for providing grooves shall be made separately). | 120.00  | M2   |      |        |
| <b>PAINTING</b>     |  |         |      |      |        |
| 40                  | Distempering with 1st quality acrylic washable distemper (ready made) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification. One or more coats on old work   | 10.00   | M2   |      |        |
| 41                  | 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   | 1800.00 | M2   |      |        |
| 42                  | Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture   | 26.00   | M2   |      |        |
| 43                  | 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   | 32.00   | M2   |      |        |
| 44                  | Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.  | 1800.00 | M2   |      |        |
| 45                  | Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete   | 10.00   | M2   |      |        |
| 46                  | Finishing walls with Acrylic Smooth exterior paint of required shade: Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface  | 10.00   | M2   |      |        |
| <b>REPAIR WORKS</b> |  |         |      |      |        |
| 47                  | Dismantling plastered brickwalls in cement mortar including cleaning, stacking the useful materials as directed by engineer-in-charge and dumping the dismantled debris as indicated at site, levelling, consolidating, all complete as directed and disposing the debris away from site all complete as directed.   | 1.00    | M3   |      |        |
| 48                  | Dismantling the existing RCC concrete including cutting the reinforcement, stacking the useful materials as directed by engineer-in-charge, dumping the dismantled debris as indicated at site, leveling, consolidating, all complete as directed and disposal of debris away from site all complete.  | 1.00    | M3   |      |        |
| 49                  | Dismantling Aluminium partition including disposing the debris away from site as directed by engineer in charge all complete.  | 6.00    | M2   |      |        |
| 50                  | 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 |      |        |
| 51                  | Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. With cement mortar 1:4 (1cement: 4 coarse sand)  | 10.00   | M2   |      |        |

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**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY    | UNIT | RATE | AMOUNT |
|--------|--|--------|------|------|--------|
| 52     | Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Kiln seasoned and chemically treated hollock wood   | 0.20   | M3   |      |        |
| 53     | Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws  | 18.00  | M2   |      |        |
| 54     | Renewing glass panes, with wooden fillets wherever necessary:<br>Float glass panes of thickness 4 mm   | 6.00   | M2   |      |        |
| 55     | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.  | 10.00  | M2   |      |        |
| 56     | Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:<br>(a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e).The whole | 120.00 | M2   |      |        |
| 57     | Dismantling Tile Flooring and Walls & Roof and disposing the debris away from site all complete as directed.   | 12.00  | M2   |      |        |

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**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
|--------|---|-------|------|------|--------|
|        | <b>DESIGN PRINTED TILES</b>   |       |      |      |        |
| 58     | Providing and laying required size of glazed tiles with DESIGN PRINTED for display of Logo (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)   | 8.00  | M2   |      |        |
| 59     | Providing and laying required size of glazed tiles with DESIGN PRINTED for Windows & Door Borders (Satin finish) in dado set in CM 1:3 with joints so as to form a true & even surface and joints finished neatly with white cement mixed with matching pigments all complete as directed. (Rate should include base plastering with CM 1:5 of required thickness.)<br><br>The rate shall include cost of customized printing at top of the tile all complete as the details given by National Health Mission Haryana / HLL directed. (Kindly refer tender documents for Design details)  | 18.00 | M2   |      |        |
|        | <b>PLUMBING</b>   |       |      |      |        |
| 60     | Renewing and repairing plumbing & sanitary items in toilets including making good all damages WC Seat, Gully Trap, Pipe Lines, Flush cistern, flush pipes, PVC pillar taps, PVC Waste Pipes, Pipelines, gate valve and Gratings of approved brand and manufacturer.   | 1.00  | LS   |      |        |
| 61     | Providing and fixing gun metal gate valve with C.I. wheel of approved quality -25MM   | 4.00  | Each |      |        |
| 62     | Providing and fixing C.P. brass angle valve for basin mixer and geyserpoints of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15 mm nominal bore.Make:Hindware,Cera,Jaquar etc..  | 2.00  | Each |      |        |
| 63     | Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.   | 1.00  | Each |      |        |
| 64     | Providing and fixing trap of self cleansing design with screwed down orhinged grating with or without vent arm complete, including cost of cuttingand making good the walls and floors :100 mm inlet and 100 mm outlet  | 1.00  | Each |      |        |
| 65     | Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S designation 7.5 | 1.00  | Each |      |        |
| 66     | Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design   | 4.00  | Each |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION   | QTY   | UNIT | RATE | AMOUNT |
|--------|---|-------|------|------|--------|
| 67     | 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 fixturescomplete, including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid  | 4.00  | Each |      |        |
| 68     | Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brasspillar taps, 32 mm C.P. brass waste of standard pattern, including paintingof fittings and brackets, cutting and making good the walls whereverrequire:White Vitreous China Wash basin size 630x450 mm with apair of 15 mm C.P. brass pillar taps   | 4.00  | Each |      |        |
| 69     | 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 |       |      |      |        |
| 70     | 20 mm nominal outer dia .Pipes  | 90.00 | RM   |      |        |
| 71     | 32 mm nominal outer dia Pipes   | 90.00 | RM   |      |        |
| 72     | 50 mm nominal outer dia Pipes   | 24.00 | RM   |      |        |
| 73     | Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as perIS: 13983 with C.I. brackets and stainless steel plug 40 mm, includingpainting of fittings and brackets, cutting and making good the wallswherever required :(Lowest retail price of sink not less than Rs. 3150)  |       |      |      |        |
| 74     | Kitchen sink without drain board,Size -610x510 mm bowl depth 200 mm   | 2.00  | Each |      |        |
| 75     | Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia  | 6.00  | Each |      |        |
| 76     | Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc.,   | 6.00  | Each |      |        |
| 77     | Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.  | 2.00  | Each |      |        |
| 78     | 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.  | 4.00  | Each |      |        |
| 79     | 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.  | 4.00  | Each |      |        |
| 80     | 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.   | 4.00  | Each |      |        |
| 81     | Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to Eureka type W.C. of quality and make as approved by Engineer - in - charge.  | 4.00  | Each |      |        |
| 82     | Providing and fixing PTMT grating of approved quality and colour. Rectangular type with openable circular lid   |       |      |      |        |
| 83     | 150 mm nominal size square 100 mm diameter of the inner hinged round grating  | 4.00  | Each |      |        |

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| SL No.               | DESCRIPTION  | QTY     | UNIT  | RATE | AMOUNT |
|----------------------|--|---------|-------|------|--------|
| 81                   | Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank   | 1500.00 | LITRE |      |        |
| 82                   | Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore  | 30.00   | Each  |      |        |
| <b>MISCELLANEOUS</b> |  |         |       |      |        |
| 83                   | Window & Door Curtain  |         |       |      |        |
|                      | Two range of curtain cloth –Both for doors, windows and partions. Assorted colours plain & prints,Stitched as per site/ size requirement,Minor modifications in stitching as per site/ size requirement,Preferred colour (Brown, Cream, Beige),Curtain price (including cloth & curtain rod) to be quoted in Squire metre,Stitching for Each curtain to be absorb in the price of the cloth generally 2 meters.Fast colours, water wash,Fabric density Non Transparent Composition .Fabric of curtain shall be soft texture, great shading, drape effect and nice doobby.The bracket shall be side mounted and front mounted as required. First rod mount is 3.5 inches from the wall.Where curtain used as a partition/ long length, sufficient support from ceiling should be provided to avoid sagging.Rate quoted for fully stitched Curtain with top nepha with punch holes after lining bucramreinforced with SS / PVC islets and lower nepha 200mm double turned.   |         |       |      |        |
|                      | Curtain fabric weight shall be up to 250-275 ( ± 5%) gsm Composition of fabric shall be polyester yarn I.E. 300 denier fast colour sink age shall be (±5%) Weft and warp shall be polyester / cotton polyester mix   | 20.00   | M2    |      |        |
| 84                   | Provide all final cleaning including for the Work of assigned Contractors and remove all waste, debris, rubbish, tools, equipment, machinery and surplus materials. Clean all sight exposed surfaces; leave work clean and ready for occupancy.  | 1.00    | LS    |      |        |
| 85                   | Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and | 10.00   | M2    |      |        |

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| SL No. | DESCRIPTION   | QTY    | UNIT | RATE | AMOUNT |
|--------|---|--------|------|------|--------|
|        | (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge.   |        |      |      |        |
| 86     | Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves ) on the external face shall be measured in sqm. up to two decimal places. Note:- 2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories (1) Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr (2) Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml. (3) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml (4) Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm 501.4-09 | 20.00  | M2   |      |        |
| 87     | Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings , the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).   | 150.00 | KG   |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No. | DESCRIPTION  | QTY  | UNIT | RATE | AMOUNT |
|--------|--|------|------|------|--------|
| 88     | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. “ (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2)“For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.“ (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.   | 2.00 | M2   |      |        |
| 89     | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 - point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in-Charge.   | 2.00 | M2   |      |        |
| 90     | Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including: Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (Each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled | 5.00 | M2   |      |        |



**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

| Sub:                    | <b>Civil and Electrical Works for the construction of Health &amp; Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.</b>   |     |       |      |        |
|-------------------------|--|-----|-------|------|--------|
| SL No.                  | DESCRIPTION  | QTY | UNIT  | RATE | AMOUNT |
| <b>ELECTRICAL WORKS</b> |  |     |       |      |        |
| 1                       | <b>Point wiring in PVC conduit with modular type switch.</b>   |     |       |      |        |
|                         | 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 PVC , 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.   |     |       |      |        |
|                         | Group C  | 48  | Point |      |        |
| 2                       | <b>Wiring through PVC conduit</b>  |     |       |      |        |
|                         | Wiring for circuit/submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.(Make:Havells/Finolex/V-guard/Polycab)   |     |       |      |        |
| a                       | 2X1.5 sq.mm + 1X1.5 sq.mm earth wire   | 300 | Metre |      |        |
| b                       | 2X2.5 sq.mm + 1 X2.5 sq mm earth wire  | 100 | Metre |      |        |
| c                       | 2X4 sq.mm + 1X4 sq.mm earth wire   | 170 | Metre |      |        |
| 3                       | <b>Telephone wiring in existing conduit:</b>   |     |       |      |        |
|                         | Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.   |     |       |      |        |
| a                       | 2 Pair   | 20  | Metre |      |        |
| 4                       | <b>A/C point</b>   |     |       |      |        |
|                         | <b>S/F 20A SPN MCB industrial socket outlet:</b><br>Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.(Make: Legrand/Havells /HPL) | 4   | Point |      |        |
| 5                       | <b>Modular type blanking plate:</b>  |     |       |      |        |
|                         | Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.(Make: Legrand/Havells/HPL)   | 4   | Each  |      |        |
| 6                       | <b>Modular boxes, bases &amp; cover plate:</b>   |     |       |      |        |
|                         | Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required.(Make: Legrand/Havells/HPL)   |     |       |      |        |
| a                       | 2 module   | 10  | Each  |      |        |
| b                       | 3 module   | 60  | Each  |      |        |
| c                       | 4 module   | 10  | Each  |      |        |
| d                       | 6 module   | 60  | Each  |      |        |
| e                       | 8 module   | 20  | Each  |      |        |
| f                       | 12 module  | 20  | Each  |      |        |
| 7                       | <b>Modular type switch/socket:</b>   |     |       |      |        |
|                         | Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc as required. (Make: Legrand/Havells/HPL)   |     |       |      |        |
| a                       | 5/6 Amps switch  | 60  | Each  |      |        |
| b                       | 3 pin 5/6 Amp socket outlet  | 60  | Each  |      |        |
| c                       | 15/16 Amps switch  | 30  | Each  |      |        |
| d                       | 6pin 15/16 Amps (universal) socket outlet  | 30  | Each  |      |        |
| e                       | Telephone socket outlet  | 2   | Each  |      |        |
| 8                       | <b>S/F PVC conduit:</b>  |     |       |      |        |
|                         | 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)  |     |       |      |        |
| a                       | 20 mm  | 200 | Metre |      |        |
| b                       | 25 mm  | 10  | Metre |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.  | DESCRIPTION   | QTY | UNIT  | RATE | AMOUNT |
|---|---|-----|-------|------|--------|
| <b>Installation Testing &amp; Commissioning</b> |   |     |       |      |        |
| 9   | <b>ITC Fluorescent fitting directly on surface:</b><br>Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.                           | 30  | Each  |      |        |
| 10  | <b>ITC Ceiling fan:</b><br>Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable etc. as required.   | 30  | Each  |      |        |
| 11  | Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.  | 30  | Each  |      |        |
| 12  | <b>LAYING OF CABLES</b>   |     |       |      |        |
|   | <b>CABLE LAYING</b>   |     |       |      |        |
|   | Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size clamped on wall surface with 1mm thick saddles as required complete.   |     |       |      |        |
| a   | FROM Mains TO DB  |     |       |      |        |
|   | 4 X 10 sq.mm  | 20  | Metre |      |        |
| 13  | <b>END TERMINATION</b>  |     |       |      |        |
|   | Supply and making end termination with brass compression gland, earth clip and aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable fo 1.1KV grade as required.   |     |       |      |        |
|   | 4 X 10 sq.mm  | 4   | Each  |      |        |
| 14  | <b>S/F VERTICAL DISTRIBUTION BOX</b>  |     |       |      |        |
|   | Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phaseoutlets are required.) |     |       |      |        |
| 14.1  | 4 way (4 + 12), Double door   | 4   | Each  |      |        |
| 15  | <b>S/F of SPN MCB PDB</b>   |     |       |      |        |
|   | 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)  |     |       |      |        |
| a   | 6 way Double door, horizontal type  | 5   | Each  |      |        |
| b   | 16 way Double door ,horizontal type   | 10  | Each  |      |        |
| 16  | <b>S/F OF SP MCB</b>  |     |       |      |        |
|   | Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "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.  |     |       |      |        |
|   | 6/32 A SP MCB   | 10  | Each  |      |        |
| 17  | <b>S/F DP ISOLATOR</b>  |     |       |      |        |
|   | Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, ISOLATOR having a sensitivity current upto 100 to 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc, as required.(Make: Legrand/ Havells/HPL)   |     |       |      |        |
|   | 40 A  | 2   | Each  |      |        |

**SCHEDULE OF WORK- NUH DISTRICT**

**SCHEDULE V C**

**Sub: Civil and Electrical Works for the construction of Health & Wellness Centre at Nuh District of Faridabad Region, Haryana - reg.**

| SL No.  | DESCRIPTION   | QTY | UNIT  | RATE       | AMOUNT |
|---|---|-----|-------|------------|--------|
| 17.1  | <b>S/F FP ISOLATOR</b>  |     |       |            |        |
|   | Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required  |     |       |            |        |
| 17.1.a  | 40A   | 2   | Each  |            |        |
| 17.1.b  | 63A   | 2   | Each  |            |        |
| 18  | <b>S/F FP RCCB</b>  |     |       |            |        |
|   | Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. |     |       |            |        |
| 18.1  | 63 A  | 1   | Each  |            |        |
| 19  | <b>EARTHING</b>   |     |       |            |        |
| a   | Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.                                   | 1   | Set   |            |        |
| b   | Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required.   | 20  | Metre |            |        |
| 20  | Supply of 15W LED tube fitting sleek with decorative end cap, powder coated CRCA steel channel complete with all electrical accessories like electronic ballast, lamp holder, 28W LED lamp etc complete as required. <b>(Philips / Wipro /HAVELLS)</b>        | 30  | Each  |            |        |
| 21  | Supply and installation of 18 W CFL with its all accessories.[ISI MAKE]   | 30  | Each  |            |        |
| 22  | Supply and installation of wall fan, white colour, 5 star rated as per BEE complete with blades, casing , wall mounting accessories etc(Make Havells/bajaj/usha/V-guard/crompton)   | 2   | Each  |            |        |
| 23  | Supply and installation EXHAUST FAN,SHUTTER TYPE white colour, 9" OR 10" star rated as per BEE complete with its all accessories(Make Havells/bajaj/usha/V-guard)   | 4   | Each  |            |        |
| <b>Total Civil and Electrical work)</b>                     |   |     |       | <b>Rs.</b> |        |
| <b>GST @ 18%</b>  |   |     |       | <b>Rs.</b> |        |
| <b>Grand Total for Nuh District (In Rs. Incl. GST @18%)</b> |   |     |       | <b>Rs.</b> |        |

I agree to execute the works as per the rates quoted above

**Signature of Bidder**