# RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY (RGCB)

## POOJAPURA, TRIVANDRUM

**RETENDER**

**Tender No. RGCB/C2A/2128/2019**
**Tender Date: 09.05.2019**

**RE-TENDER FOR**
**SUPPLY & INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING**
**FIRE SUPPRESSION SYSTEM AND EXHAUST BLOWER &**
**FRESH AIR SYSTEM FOR HOSTEL BUILDING**
**AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY,**
**AKKULAM, TRIVANDRUM**

## PART-I

## PREQUALIFICATION & CONDITIONS

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## PART - II


Schedule of Quantities

# 1. NOTICE INVITING TENDER

**Tender No. RGCB/C2A/2128/VOL.I/2019 DATED 09.05.2019**

To
…….
…….
…….

**RE-TENDER FOR**
**SUPPLY& INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING**
**FIRE SUPPRESSION SYSTEM AND EXHAUST BLOWER & FRESH AIR SYSTEM**
**FOR HOSTEL BUILDING AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY**
**AKKULAM, TRIVANDRUM**

Firm, Competitive item rate tenders in two cover system are invited for the above work from eligible manufacturers and suppliers of Kitchen Equipments who satisfy the following eligibility criteria:

(i) Experience of having successfully completed similar works during the last 7 years ending the previous day of the last date of submission of tenders:

(a) Three similar completed works each costing not less than the amount equal to 22 lakhs

**OR**

(b) Two similar completed works each costing not less than the amount equal to 27 lakhs

**OR**

(c) One similar completed work of aggregate cost not less than 44 lakhs

(ii) Turn over: Average Annual financial turn over should be Rs. 17 lakhs during immediate three consecutive financial years.

(iii) Tenderer should have a mandatory production facility including CNC Fiber laser cutting machine with a minimum capacity of 2kw x 3000mm length.

(iv) Tenderer should have a mandatory production facility including automatic CNC bending machine with a minimum capacity of 2mm thickness x 3000mm length.

(v) The tenderer should have the capacity for supplying and fixing fire suppression system of approved make which includes supply, installation testing and commissioning.

(vi) The tenderer should quote invariably for all the items. Tenders partially quoted will be rejected without assigning any reason.

**NOTE: The tenderers must submit along with their PART-1 Tender document valid, authenticated and unambiguous documents to prove their fulfilling the above mentioned eligibility criteria, without which their tender will not be processed further.**

| | | | |
|---|---|---|---|
| 1. | Name of work | : | SUPPLY AND INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING FIRE SUPPRESSION SYSTEM AND EXHAUST BLOWER & FRESH AIR SYSTEM FOR HOSTEL BUILDING AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY, AKKULAM, TRIVANDRUM |
| 2. | Estimated cost of work | : | Rs.54,40,000/- |
| 3. | Earnest money to be deposited | : | Rs.1,08,800/-as DD from nationalized Bank / Scheduled Bank |
| 4. | Period of completion | : | Two (2) Months |
| 5. | Cost of tender form Original with drawings | : | Rs. 1,000.00 + GST 18% |
| 6. | Time & Date of issue of Tender | : | From 10am on 09.05.2019 upto 3.00 pm on 20.05.2019 |
| 7. | Time & Date of submission of tender at the office of The Controller of Administration, RGCB, Poojappura, Trivandrum | : | upto 3.00pm on 22.05.2019 |
| 8. | Time & Date of opening of Tender (Part-I only) | : | 3.30pm on 22.05.2019 |
| 9. | Firm period of tender | : | Sixty (60) days |
| 10. | Defects liability period | : | Twenty four (24) Months |

The tender forms can be had from the office of the undersigned and tender offer duly filled in signed and sealed in two covers should be addressed to the undersigned so as to reach him not later than 3 P.M on 22.05.2019.

**IMPORTANT:** The Tender should be accompanied by Earnest Money Deposit as stipulated.

If the Tenderer wishes to include any conditions he may submit the same along with EMD in sealed cover super scribed Part-I.

Part –I : Cover containing EMD with covering letter, testimonials regarding the eligibility criteria & Conditions if any along with Signed and sealed copy of tender documents part–I, drawings and Technical specification

Part –II : Priced Tender Documents part-II.

The Part I cover only will be opened in the presence of Tenderers or their Authorised Representatives who shall be in a position to clarify all the conditions stipulated by them. The RGCB will thereafter verify the testimonials regarding the eligibility and shortlist the eligible bidders whose tender only will be considered for the next stage of processing. Of these bids if there are conditions if any which are to be accepted uniformly, the same will be intimated in writing to all the Tenderers.

The Tenderers on receipt of the above letter from the RGCB can in lieu quote a percentage above or below their tendered amount already submitted for accepting the above conditions in a separate sealed cover within the stipulated date super scribed as PART III.

The sealed cover Part II containing Priced Tender Documents already submitted before the stipulated time will be opened along with the Part III cover on stipulated date in the presence of the Contractors (or their authorized representatives) who are present. Normally the lowest tender will be accepted.

Please note that this letter will form part of the contract document and that the contents of this letter shall be supplemental to the conditions in the tender and not in derogation thereof except to the extent specifically provided herein. RGCB reserves the right to accept or reject any tender without assigning any reasons. All condition with regard to tender in CPWD manual are applicable.

CONTROLLER OF ADMINISTRATION
R.G.C.B

## 2.FORM OF TENDER

To

Dear Sir,

Having examined the drawings, specifications, designs and Bill of Quantities relating to the works specified in the Memorandum hereinafter set out and having examined the site of the works specified in the said Memorandum and having acquired the requisite information relating thereto as affecting the tender, I/We hereby offer to execute the works specified in the said Memorandum mentioned within the time specified in the said Memorandum at the rates mentioned in the attached Bill of Quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in conditions of tender, the Articles of Agreement, Special conditions, Bill of Quantities and Conditions of Contract and with such materials as are provided for, by, and in all other respects in accordance with such conditions so far as they may be applicable.

**MEMORANDUM**

| | | | |
|---|---|---|---|
| (a) | Description of work | : | SUPPLY& INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING FIRE SUPPRESSION SYSTEM AND EXHAUST BLOWER & FRESH AIR SYSTEM FOR HOSTEL BUILDING AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY,AKKULAM, TRIVANDRUM |
| (b) | Estimated Probable Amount of Contract | : | Rs. 54,40,000/- |
| (c) | Earnest Money | : | Rs. 1,08,800/- |
| (d) | Performance guarantee | : | Rs. 2,72,000/- as DD in favor of Rajiv Gandhi Centre for Biotechnology or in Government securities or irrevocable bank guarantee in the prescribed form. |
| (e) | Security Deposit percentage to be deducted from bills | : | 2.5% from each RA Bill as well as final Bill |
| (f) | Time allowed for completion of the works from fifteenth day after the date of written order to commence work. | : | Two Months (2 Months) |

2. Should this tender be accepted, I/We hereby agree to abide by and fulfill the terms and provision of the said conditions of contract annexed hereto so far as they may be applicable or in default thereof to forfeit and pay to the RGCB, the amount mentioned in said conditions.

3. I/We have deposited a sum of Rs.1,08,800/- as Earnest money with the RGCB which amount is not to bear any interest. Should I/We fail to execute the Contract Agreement when called upon to do so, I/We do hereby agree that this sum shall be forfeited by me/ us to the RGCB.

4. It is also hereby specifically agreed that this tender will remain firm for a period of 60 days from the date of opening of Tender.

5. Our Bankers are: (with full address)
   (I)

   (II)

   The names of partners of our firm are :

   (I)

   (II)

Name of the partner of the firm
Authorized to sign
or
Name of person having Power of
Attorney to sign the contract
(Certified true copy of the Power
of Attorney should be attached)
(Signature and address of witnesses)

yours faithfully,

Signature of Contractor

(I)

(II)

## 3. ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made the……. Day of ……...between the ……..... (Hereinafter called "the RGCB") of the one part and
……
…….. (Hereinafter called "the Contractor") of the other part.

WHEREAS the RGCB is desirous of carrying out ……. Works for the RGCB and has caused drawings & specification describing the works to be done to be prepared by M/s. Iyer & Mahesh its Architect.

AND WHEREAS the said Drawings numbered ……. Including, the specifications and the Bill of Quantities have been signed by or on behalf of the parties hereto.

AND WHEREAS the Contractor has agreed to execute upon and subject to the Conditions set forth herein and to the Conditions set forth in the Special Conditions and in the Bill of Quantities and Conditions of Contract (all of which are collectively hereinafter referred to as " the said Conditions") the works shown upon the said drawings and/or described in the said specification and included in the Bill of Quantities at the respective rates therein set forth amounting to the sum as therein arrived at or such other sum as shall become payable there under (herein after referred to as "the said contract amount).

**NOW IT IS HEREBY AGREED AS FOLLOWS**

1. In consideration of the said Contract Amount to be paid at the times and in the manner set forth in the said Conditions, the Contractor shall upon and subject to the said Conditions execute and complete the work shown upon the said Drawings and described in the said Specifications and the Bill of Quantities at the rates agreed in the Schedule.

2. RGCB shall pay the contractor the said contract amount or such other sum as shall become payable, at the time and in the manner specified in the said conditions.

3. The term 'Architect' in the said conditions shall mean M/s Hafeez Contractor and Iyer & Mahesh Consortium,Registered Architect, 15/1989 (9),Narayana Towers, Vazhuthacaud, Thiruvananthapuram –695 014 for the purpose of architectural planning and designing etc of the building / structures to be constructed, supervision of works, preparing and recommending bills etc under this contract. In the event of their ceasing to be Architects for the work mentioned in this contract for whatever reason such other person or persons as shall be nominated by the RGCB for that purpose will function as 'Architects'.

4. The said Conditions and Appendix thereto shall be read and construed as forming part of the Agreement, and the parties hereto shall respectively abide by, submit themselves to the said conditions and perform the agreements on their part respectively in the said conditions contained.

5. The plans, Agreement and Documents mentioned herein shall form the basis of this **contract.**

6. This contract is to carry out the work in respect of the SUPPLY& INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING FIRE SUPPRESSION SYSTEM AND EXHAUST BLOWER & FRESH AIR SYSTEM FOR HOSTEL BUILDING AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY, AKKULAM, TRIVANDRUM
   to be paid for according to actual measured quantities at the rates contained in the Schedule of Rates and Probable quantities or as provided in the said conditions.

7. RGCB reserves to itself the right of altering the Drawings and nature of the work by adding to or omitting any items of work or having portions of the same carried out without prejudice to this contract.

8. Time shall be considered as the essence of this Contract and the Contractor hereby agrees to commence the work soon after the site is handed over to him or agreement executed or from twenty first day after the date of issue of formal work order as provided for in the said conditions whichever is later and to complete the entire work within 2 (two) Months subject nevertheless to the provisions for extension of time.

9. All payments by the RGCB under this Contract will be made only at Thiruvananthapuram.

10. Arbitration shall not be a means to settle any dispute arising out or in any way connected with this Agreement.

11. All disputes arising out of or in any way connected with this Agreement shall be deemed to have arisen at Thiruvananthapuram and only Courts in Thiruvananthapuram shall have jurisdiction to determine the same.

12. That the several parts of this contract have been read by the Contractor and **fully understood by the Contractor.**

IN WITNESS WHEREOF THE RGCB and the Contractors have set their respective hands to these presents and two duplicates hereof the day and year first hereinabove written

If the Contractor is a partnership or an individual

IN WITNESS WHEREOF the RGCB has set its hands to these presents through its duly authorized official and the contractor has caused its common seal to be affixed hereunto and the said two duplicates/ has caused these presents and the said two duplicates hereof to be executed on its behalf, the day and year

If the Contractor is a Company

**Signature Clause**

SIGNED & DELIVERED by the RGCB by the
hand of Sri…….
……
(name & designation)…….
in the presence of (1)……..
……
Address……..

(2)……
Address……..

SIGNED & DELIVERED by contract…….
……. in the presence of
(1)…….
Address…….

(2)…….
Address…….

If the party is a partnership firm or an individual should be signed by all or on behalf of all the partners.

Witness
THE COMMON SEAL OF…….
was hereunto affixed pursuant to the resolutions passed by its Board of Directors at the meeting held on……
in the presence of

(1)……

(2)……

Directors who have signed these presents in Token thereof in the presence of

(1)…….

(2)……

If the contractor signs under its common seal the Signature Clause should tally with the sealing clause in the Articles of Association

SIGNED & DELIVERED by the Contractor
by the hand of Sri……..
and duly constituted Attorney

If the Contractor is Signing by the hand of Power of Attorney, whether a Company or individual

## 4.GENERAL INSTRUCTIONS TO TENDERERS

1. Sealed Tenders in separate covers marked I & II, Cover–I containing EMD, **Conditions if any and Sealed and Signed copy of Tender Document PART-I and complete set of** drawings and cover-II containing the priced tender documents PART-II should be addressed to The Controller of Administration, RGCB, Poojappura, Trivandrum.

**2. Eligibility criteria**

(i) Experience of having successfully completed similar works during the last 7 years ending the previous day of the last date of submission of tenders:

(a) Three similar completed works each costing not less than the amount equal to 22 lakhs

**OR**

(b) Two similar completed works each costing not less than the amount equal to 27 lakhs

**OR**

(c) One similar completed work of aggregate cost not less than 44 lakhs

(ii) Turn over: Average Annual financial turn over should be Rs. 17 lakhs during immediate three consecutive financial years.

(iii) Tenderer should have a mandatory production facility including CNC Fiber laser cutting machine with a minimum capacity of 2kw x 3000mm length.

(iv) Tenderer should have a mandatory production facility including automatic CNC bending machine with a minimum capacity of 2mm thickness x 3000mm length.

(v) The tenderer should have the capacity for supplying and fixing fire suppression system of approved make which includes supply, installation testing and commissioning.

(vi) The tenderer should quote invariably for all the items. Tenders partially quoted will be rejected without assigning any reason.

**NOTE: The tenderers must submit along with their PART-1 Tender document valid, authenticated and unambiguous documents to prove their fulfilling the above mentioned eligibility criteria, without which their tender will not be processed further.**

3(a). The cover-I of Tenders will be opened at 3.30PM on 22.05.2019 at RGCB by Controller of Administration OR any other officer designated for this purpose by him in the presence of the ARCHITECT and the tenderers or their representatives, should they choose to be present.

The Cover II of the tender will be opened as specified in the invitation to Bid letter on page 3.

(b) Tenders shall remain open for acceptance by the RGCB for a period of 60 DAYS from the date of opening the tender which period may be extended by mutual agreement and the tenderer shall not cancel or withdraw the tender during this period.

(c) The tenderer must use only forms issued by the RGCB to fill in the rates

4(a) The tender form must be filled in ENGLISH and all entries must be made by hand and written in INK. If any of the documents is missing or unsigned the tender may be considered invalid by the RGCB at its discretion.

(b) Rates should be quoted both in figures and words in columns specified. All erasures and alterations made while filling the tender must be attested by initials of the tenderer. Overwriting of figures is not permitted and failure to comply with either of these conditions will render the tender void at the RGCB's option. No advice of any change in rate or conditions after the opening of the tender will be entertained.

(c) Each of the tender documents should be signed and sealed on all pages by the person or persons submitting the tender in token of his/their having acquainted himself/ themselves with the General Conditions of Contract, Specifications, and Special Conditions etc. as lay down. Tenders with any of the documents not signed are liable to be rejected.

(d) The tender submitted on behalf of a firm shall be signed by all the partners of the firm or by a partner who has the necessary authority on behalf of the firm to enter into the proposed contract. Otherwise the tender may be rejected by the RGCB.

5. RGCB does not bind itself to accept, the lowest or any tender and reserves to itself the right to accept or reject any or all the tenders, either in whole or in part, without assigning any reasons for doing so. The RGCB Shall be at liberty to shelve the whole process of the tender without assigning any reason thereof.

6 "Intending tenderers shall pay as Earnest Money Deposit a sum of Rs. 1,08,800/- by demand draft/ Deposit at Call Receipt issued by a Nationalized Bank drawn in favour of Rajiv Gandhi Centre for Biotechnology. Demand Draft/ Deposit at Call Receipt may be directly enclosed in Cover No.I. A tender which is not accompanied by such receipt of deposit as Demand Draft or Deposit at Call Receipt as Earnest Money, will not be considered. The Earnest Money will be refunded to the tenderer if his tender is not accepted but without any interest" within a period of 90 days.

7. On receipt of intimation from the RGCB of the acceptance of his/their tender, the successful tenderer shall within twenty days sign an Agreement in accordance with the Draft Agreement.

8. (A) **PERFORMANCE GUARANTEE**

Performance Guarantee

8.01 The successful Tenderer, hereafter referred to as the contractor, shall deposit an amount equal to 5% of the accepted value of the work (without limit) as performance guarantee in one of the following forms:

(i) DD in favor of RGCB.
(ii) Fixed Deposit Receipt (FDR) of a Nationalized/Scheduled Bank pledged in the name of RGCB.
(iii) An irrevocable bank guarantee bond of any scheduled bank or the State Bank of India in the prescribed form given in Annexure.

8.02 The time allowed for submission of the performance guarantee by the contractor shall be decided by the NIT approving authority for a period ranging from 4 to 15 days of issue of the letter of acceptance, depending upon the magnitude and/or urgency of the work. **This period can be further extended at the written request of the contractor by the Competent Authority in RGCB for a maximum period ranging from 1 to 15 days with late fee@ 0.1% per day, of performance guarantee amount.** Such time period may be mentioned in the schedule F while finalizing the NIT.

8.03 The deposit towards performance guarantee shall be made on or before 10 (ten) days of the issue of the letter of acceptance.
The Performance Guarantee shall be refunded to the contractor soon after completion of the work on issuance of completion certificate and 60 (Sixty) days thereafter.

**(B) SECURITY DEPOSIT**

Security Deposit shall be collected by deduction of 2.5% of the Gross Amount of Each Running Bill and Final Bill of the contractor, who has the option of making the deposit i.e. 2.5% of the Gross Value of order in Cash or other approved modes. The Security Deposit shall be in addition to the Performance Guarantee. The Security Deposit shall be released without interest to the contractor on issue of the virtual completion certificate and after the expiry of the Defect Liability Period of 24 (Twenty-four) months from the date of completion, provided that rectification of any defect intimated within the Defect Liability Period is not pending. The Performance Guarantee and Security Deposit do not bear any interest whatsoever.

(a) All Statutory payments in connection with the employment of the workmen for this work will be borne by the contractor and RGCB will not be held responsible for any lapse on the part of the contractor.

(a1) All Statutory taxes like Income tax, and contribution to Labour Welfare Fund etc. will be recovered from the Contractors bill at prevailing rates.

(b) All compensation or other sums of money payable by the Contractor to the RGCB under the terms of this Contract may be deducted from the **Performance Guarantee** if the amount so permits and the Contractor shall, unless such deposit has become otherwise payable within ten days after such deduction make good in cash the amount so deducted.

11. The Contractor shall not assign the Contract. He shall not sublet any portion of the Contract except with the written consent of the RGCB. In case of breach of these conditions, the RGCB may serve a notice in writing to the Contractor rescinding the Contract whereupon the Performance Guarantee shall stand forfeited to the RGCB, without prejudice to his other remedies against the Contractor.

12. The Contractor shall carry out all the work strictly in accordance with Drawings, details and instructions of the Architect and the Structural Consultant. Changes made in the design and with the prior approval in writing of the RGCB they desire the Contractor to carry out the same, the Contractor shall carry out the same without any extra charge. The Architect's decision in such cases shall be final and shall not be open to arbitration.

13. A schedule of Probable Quantities in respect of each work and Specification accompany these special conditions. The Schedule of Probable Quantities is liable for alteration by omissions, deduction or additions at the discretion of the RGCB. Each tender should contain not only the rates but also the value of each item should be totaled in order to show the aggregate value of the entire tender.

14. The Tenderer must obtain for himself on his own responsibility and at his own expenses all the information which may be necessary for the purpose of making a tender and for entering into a contract and must examine the drawings, and must inspect the site of the work and acquaint himself with all local conditions, means to access to the work, nature of the work and all matters appertaining thereto.

15. The rates quoted in the tender shall include all charges for clearing of site before commencement as well as after completion, water, electric consumption and meters etc. The rates quoted shall be deemed to be for the finished work to be measured at site. The rates shall also be firm and shall not be subject to exchange variation, labour conditions, fluctuations in railway freights or any conditions whatsoever.

16. The Contractor should note that unless otherwise stated the tender is strictly on item rate basis and his attention is drawn to the fact that rates for each and every item should be correct, workable and self supporting. The quantities in the Bill of Quantities approximately indicate the total extent of work but may vary to any extent on the higher or lower side and may even be omitted thus altering the aggregate value of the Contract. No claim shall be entertained on this account.

17. Time allowed for carrying out the work as mentioned in the Memorandum shall be strictly observed by the contractor and it shall be reckoned from the 21$^{st}$ day after written order to commence the work is issued or from the date of execution of the agreement or from the date of handing over site whichever is later.

18. The work shall through out the stipulated period of the Contract be proceeded with all due diligence and if the Contractor fails to complete the work within the specified period he shall be liable to pay compensation as defined in the Conditions of Contract. The tenderer shall before be commencing work prepare a detailed work Programme which shall be approved by the Consultant / Architect and RGCB.

19. The Contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause of delays may be, including delays arising out of modifications to the work entrusted to him or in any sub-contract connected therewith or delays in awarding contracts for other trades of the project or in commencement or completion of such works or in procuring government controlled materials for construction purposes or for any other reason whatsoever and the RGCB shall not be liable for any claim in respect thereof. The RGCB does not accept liability for any sum besides the tender amount, subject to such variations as are provided for herein.

20. The successful tenderer is bound to carry out any item of work necessary for the completion of the job even though such items are not included in the quantities and rates. Schedule of instruction in respect of such additional items and their quantities will be issued in writing by the Architect with the prior consent in writing of the RGCB.

21. The successful tenderer must co-operate with the other contractors appointed by the RGCB so that the work shall proceed smoothly with the least possible delay and to the satisfaction of the Architect/RGCB.

22. The Contractor must bear in mind that all the work shall be carried out strictly in accordance with the Specifications made by the Architects and also in compliance of the requirement of the local public authorities and to the requirements of the Shedule of Quantities and no deviation on any account will be permitted.

23 (a) The successful tenderer for work should make his own arrangements to obtain all materials required for the work.

(b) The Contractor shall pay and bear the cost of loading and unloading and transporting the same to the site as well as storage and all other charges and expenses whatsoever required for the completion of the items of work.

(c) Water and electricity required for the work shall be provided by the contactor at his cost.

24. The tenderer shall have to use materials of the makes/manufacturers specified in the list of materials of approved brand and/or manufacture contained in this tender form.

25. The contractor shall strictly comply with the provision of safety code annexed hereto.

26. I.S Code numbers wherever mentioned in the tender shall be the latest version of I.S codes as on the date of opening Tenders.

27. The successful tenderer shall be required to submit the chart for the various activities involved in this work including dependencies etc. and regularly monitor the progress of construction accordingly.

28. The security deposit of the successful tenderer will be forfeited if he fails to comply with any of the conditions of the Contract.

29. **CONTRACTOR TO INFORM HIMSELF FULLY**

The Contractor shall be deemed to have carefully examined the work and site conditions including labour, the general and special conditions, the specifications, schedule and drawings and shall be deemed to have visited the site of work to have fully informed himself regarding the local conditions and carried out his own investigation to arrive at the rates quoted in the tender. In this regard, he will be given necessary information available with the Architects but without any guarantee about its accuracy.

If the Contractor shall have any doubts as to the meaning of any portion of the general conditions, or the special conditions or the scope of the work or the specifications and drawings or any other matter concerning the contract he shall in good time, before submitting his tender, put forth, the particulars thereof and submit them to the RGCB, Thiruvananthapuram in writing in order that such doubts may be clarified authoritatively in writing before tendering. Once a tender is submitted the matter will be decided according to tender conditions in the absence of such authentic pre-clarification.

30. **ERRORS, OMMISSIONS & DESCRIPTIONS**

(a) In case of errors, omissions and/or disagreement between written and scaled dimension on the drawings or between the drawings and specifications etc the following order of preferences shall apply.

(i) Between actual scaled and written dimensions (or description) on a drawing the latter shall be adopted.

(ii) Between the written or shown description or dimensions in the drawings and the corresponding one in the specification the latter shall be taken as correct.

(iii) Between the written description of the item in the specifications and the detailed descriptions in the Bill of Quantities of the same item the latter shall be adopted.

(b) In case of difference between the rates written in figures and words, the rate adopted for working out the total amount of the item in the original tender form, shall be taken as correct. In all other cases the correct rate would be that which is lower.

In all cases of omission and/or doubts or discrepancies in any item or specification a reference shall be made to the Architects whose elucidation, elaboration or decision shall be considered as authentic. The Contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.

I/We hereby declare that I/We have read and understood the above instructions for guidance of tenderers.

Witness : Signature of Tenderer

Date Address

**SEAL**

## 5. SPECIAL CONDITIONS OF CONTRACT

1. Lump sum items will be paid for only as per actuals based on detailed measurements when they are measurable or on details of labour and materials based on clause 4 below limiting to the lump sum quoted by the contractor or the lump sum provided in sanctioned estimate whichever amount is lower.
2. All items not included in the tender and agreement schedule will be classified as extra items only.
3. The contractor shall be bound to carry out all extra items not provided for in the schedule but found necessary during actual execution of work for proper completion of the Project.
4. Item of work not expressly or impliedly described in the scheduled plans or specifications will be treated as 'extras'. They will include only items of works which though highly necessary for proper execution for the work and for its completion were not provided for in the original contract.
5. The execution of extra item of work and payment therefore will be based on the following. There shall be an order in writing to execute the extra item of work duly recommended by the Architect or his authorized engineer and approved by the RGCB.
6. The rates for extra items of work shall be worked based on rates as approved by the Architect and RGCB.
7. All sums found due to Government from the contractor, or by virtue of this agreement shall be recovered from the contractor if so required by the respective departments.
8. RGCB will undertake wherever necessary to supply controlled materials and no claim for extra payment on account of delay in the supply of controlled materials will be entertained.
9. When the rate quoted in figures and words disagree the rates quoted in words will be taken for the purpose of the settlement of the contract and the contractor is bound to accept the rates if awarded to him.

9(a) **Terms of Payment**

(1) 10% of the PAC as advance against Bank Guarantee on approval of the GA Drawings with all required details. The Bank Guarantee is to be valid till the date of completion of the work.

(2) 60%(total 70%) on Complete Material Delivery of the Kitchen Equipments at Site.

(2) 20% (total 90%) on completion of the work and issue of virtual completion certificate.

(3) Balance 10% (total 100%) on receipt of all statutory approvals, testing and handing over of the Equipments.

(4) All payments are subject to deduction of Security Deposit and all other statutory deductions.

In case different rates are quoted for same specification under identical working condition in different parts of the schedule only the lowest quoted rates will be accepted.

10. All items should be carried out as per the relevant specification for the items in the BOQ, with clarifications if any, by the architect.

11. The Contractor alone is responsible for the safety of his labourers and damages, if any payable under workmen's Compensation Act will be to his debit. He shall abide by the conditions in all the relevant labour laws. All safety measures are to be ensured by the Contractor; the RGCB shall not be responsible for any mis-happenings in the site due to the negligence or otherwise of the Contractor's workers.

12. Defects, if any noticed within 24 months from the date of virtual completion of the work will be got rectified by the contractor in default of which this will be attended by the RGCB and the cost made good from the Contractor.

13. The Contractor agrees that before final payment shall be made on the contract he will sign and deliver to the Architect either in the measurement book or otherwise as demanded a valid release and discharge from any and all claims and demands whatsoever for all matters arising out connected with the contract provided that nothing in this Clause shall discharge or release the Contractor from his liabilities under the Contract. It is further expressly agreed that the Architect on supplying the final measurements Certificate need not be bound by the preceding measurements and payments. The final measurements if any, of the Architect shall be final conclusive and binding on the Contractor.

14. The Tender Notice shall form part of the Agreement

15. The date fixed by the RGCB for commencement and completion of works as entered in the Agreement shall be strictly observed by the Contractor. One fourth of the work to be done when one fourth of the whole time allowed for it has elapsed, one half of the work when one half of the time allowed elapsed, and three fourth of the works when three fourth of the time has elapsed. However, if due to unforeseen delay in design or construction the above rate of progress could not be maintained the contractor may apply in writing to the RGCB for modification of the rate of progress indicating the reason therefor. The Architect may recommend to the RGCB, the modification in rate of progress within the limit of extension of item as per clause (a) below:

16. The time for completion of the whole of the Facilities included in this contract shall be 2 (Two) months from the date of issue of letter of acceptance.

| Stage | Details of activities | Time Period | Value of component in % |
|---|---|---|---|
| 1 | Submission of detailed Engineering drawings | 7 $^{th}$ day | 5% |
| 2 | Supply of all Units/Equipment | 30$^{th}$ day | 75% |
| 3 | Completion of installation of Equipments | 45$^{th}$ day | 90 % |
| 4 | Testing & Commissioning of Equipments | 60$^{th}$ day | 100 % |
| 5 | Defects Liability period with free maintenance | 24 months after satisfactory completion, successful commissioning of works and operational acceptance | No value of components |

17. Extension of time of completion of work and fine:
    If the contractor fails to maintain the required progress in terms of Clause 16 or to complete the work on or before the contract or extended date of completion, he shall, without prejudice to any other right to remedy, available under the law of the Government on account of such breach, pay, as agreed compensation, the amount calculated at the rates stipulated below that the progress remains below that specified in Clause 16 or that the work remains incomplete.
    Compensation : @ 1.5% per month of delay to be computed on per day basis for the value of the work remaining to be done. Provided always that the total amount of compensation for delay to be paid shall not exceed 10% of the tendered value of work remaining to be done. The amount of compensation shall be adjusted against any sum payable to the contractor.

18. The time allowed for the works as specified or the extended time granted in accordance with these conditions shall be the essence of the contract. The execution of works shall commence from such time period specified in the selection notice. If the contractor fails to commence the work in the stipulated time, the RGCB will be at liberty to forfeit the earnest money deposit and performance guarantee absolutely. On signing the contract, a "**Time and Progress Chart"** shall be prepared and submitted by the contractor indicating the various activities / items of work and their proposed programme of completion. The said Programme on approval of RGCB shall be treated as part of the contract.

19. The Contractor has to engage and nominate required site staff during the duration of the work and upto completion.

20. The method of measurements will be as per Bureau of Indian Standards.

21. All sums found due to the RGCB under or virtue of these presents shall be recoverable first from the security furnished by the Contractor

22. The rates quoted by the Contractor shall be inclusive of all statutory taxes like Income tax and contribution to Labour Welfare Fund etc. which will be recovered in the prevailing rates. GST shall be dealt with as per existing rules.

23. Intending Tenderers are expected to inspect the site before tendering and ascertaining the exact nature of the work to be done. No plea for extra rates of any kind over and above the rates quoted by them will be considered.

24. The quantities provided for in the schedule may vary as per actual requirement and the Contractor should be prepared to do any variation over the Schedule Quantities at quoted rate for the work.

## COMMUNICATIONS FOR CONDUCT OF CONTRACT WORK

The following procedure for communication between RGCB and Contractor will be in force:

| | | |
|---|---|---|
| 1. | For day-to-day operations on technical aspects, arrangement of works, measurements, instructions in the field, periodical reports etc | Architect: Site Engineer<br>Contractor |
| 2. | For more important aspects of the Contract such as rescheduling of works, defaults/ delays, negligence etc of Contractor, submission of contract certificates, requests for extra items, finalization of rates therefore etc | RGCB: Project Manager<br>Architect: Site Engineer<br>Contractor<br>(Contractor shall give a copy of his communication to the Architect) |
| 3. | On Major issues involving financial aspects, payment of bills, dispute etc. | The Contractor shall write to the RGCB through the Architect. |
| 4. | Request (& further requests if warranted) for Completion certificate | Contractor shall give a copy of request to Engineer & RGCB through Architects |

5. All bills for payment should be addressed to the RGCB and submitted through the Architect.

## 6. SAFETY CODE

1. The first aid appliances including adequate supply of sterlised dressings and cotton wool shall be maintained in a readily accessible place.

2. An injured person shall be taken to a hospital without loss of time in cases where the injury necessitates hospitalisation.

3. Hoisting machines and tackle if used in works, including their attachments, anchorage and supports shall be in perfect condition.

4. Fire hazard items shall not be allowed near the working site.

5. Adequate safety measures against fire, theft etc will be taken by the firm/ supplier.

## ACCIDENTS HOARDING LIGHTING –OBSERVATIONS WATCHMAN

(a) It shall be the contractor's sole responsibility to protect the public and his employees against accident from any cause and shall indemnify the RGCB against any claims for damages for injury to person or property, resulting from any such accidents and he shall where the provisions of the Workmen's Compensation Act - apply, take steps to properly insure against any claims there under.

(b) On the occurrence of an accident which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen the contractor shall within 24 hours of the happening of such accident intimate in writing to the RGCB, the fact of such accident. The contractor shall indemnify RGCB against all loss or damage sustained by RGCB resulting directly or indirectly from his failure to give intimation in the manner aforesaid, including the penalties or fines if any payable by RGCB as a consequence of RGCB's failure to give notice under the Workmen's Compensation Act or otherwise conform to the said Act in the regard to such accident.

(c) In the event of an accident in respect of which compensation may become payable under the Workmen's Compensation Act VIII of 1973 such sum or sums of money as may be, in the opinion of the RGCB shall be final in regard to all matters arising under this clause. In such cases, the contractor shall bear the compensation payable and the contractor shall indemnify the RGCB against such payments.

## 7. DECLARATION BY TENDERER

I . . . .. . . .. . . . . ... . . . .. . . . . ... .. . .. . . . .. . . . .. . . . . ..... .. . . . . .. . . ..... .. .. . . . . .. ..... . hereby declare that I am not related to an Employee of the RGCB who is in charge of or having control of this work. I agree that if at any stage it is provided that this declaration is untrue, the Earnest Money/Security Deposit paid by me will be forfeited and the Contract entered will stand cancelled. It is understood that the relationship with the RGCB Employee referred to herein will be restricted to my Father, Mother, Son, Daughter, and Brother, Sister, Direct Uncle, Nephew, Father-in-law, Mother-in-law, Brother-in-law, Sister-in-law and first Cousin of the Employee concerned.

SIGNATURE OF THE TENDERER

Place:

Date:

## 8. GENERAL CONDITIONS OF CONTRACT

### 1. Definition of Terms

In Construing these conditions, the specifications, Bill of Quantities and contract Agreement, the following words shall have the meanings herein assigned to them except where the subject or context otherwise requires.

(a) RGCB: Shall mean the The Rajiv Gandhi Centre for Bio- technology and shall include its assigns and successors.

(a1) **'Consultant'** shall mean the Engineering Consultant appointed by the RGCB.

(a2) **'Architect'** shall mean Architect Hafeez Contractor and Iyer &Mahesh consortium, Registered Architects & Approved Valuers, 15/1989 (7), Narayana Towers, Vazhuthacaud, Thiruvananthapuram 695014.

(a3) 'Engineer' shall mean the Engineer of Architect and acting on behalf of the Architect. He is empowered to issue instructions and such other orders, as he may think fit to the Contractor within the scope of this contract for its proper fulfillment, for taking of measurements of work, determining the quality of works and recommend for payments on contract certificates under the instructions of the Architect. Payments however, shall be made by the RGCB on advice of Architects.

**(b) 'Contractor' in the case of a Partnership firm**

"Contractor" shall mean ……and trading as partners in the name and style of…… and having a place of business at……. and shall include the partners for the time being of the said and the legal representatives of a deceased partners.

**'Contractor' in the case of Individual**

"Contractor" shall mean Shri…….……trading in the Individual name and style of……..and shall include his heirs, and legal representatives.

**In the case of Company**

"Contractor" shall mean…….…… a company incorporated under company law. and having its registered office at ……. and shall include its successors and assigns.

**(c)** **'Site'**

Shall mean the site of the Contract works including any building and erections thereon and any other land (inclusively) as aforesaid allotted by the RGCB for the Contractor's use

**(d)** **'This Contract'** shall mean the Articles of Agreement, the Special Conditions, the Conditions, the Appendix, the Bill of Quantities and Specification attached hereto and duly signed.

(e) **'Notice in writing '**or written notice shall mean printed characters sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office of the addressee and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

(f) **'Act of Insolvency '**shall mean any Act of Insolvency as defined by the Presidency Towns insolvency Act, or the Provincial Insolvency Act or any Act amending such original

(g) **'Net Prices'** If in arriving at the contract amount, the Contractor shall have added to or deducted from the total of the items in the Tender any sum, either as a percentage or otherwise, then the net price of any item in the tender shall be the sum arrived at by adding to, or deducting from the actual figure appearing in the tender as the price of that item a similar percentage or proportionate sum provided always that in determining the percentage or proportion of the sum so added or deducted by the contractor the total amount of any Prime cost items and provisional sums of money shall be deducted from the total amount of the tender. The expression "net rates" or "net prices" when used with reference to the contract or accounts shall be held to mean rates or prices so arrived at.

(h) "The Works"shall mean at SUPPLY& INSTALLATION OF KITCHEN EQUIPMENTS INCLUDING FIRE SUPPRESSION SYSTEM FOR AND EXHAUST BLOWER & FRESH AIR SYSTEM HOSTEL BUILDING AT RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY, AKKULAM, TRIVANDRUM

for the RGCB as per the Bill of Quantities as provided herein. Words importing persons include firms and corporations. Words importing the singular only also include the plural and vice versa where the context requires.

2. **Scope of Contract**

The Contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Architect. The Architects may in his absolute discretion and from time to time issue further drawings and / or written instructions, details directions and explanations which are hereafter collectively referred to as "Architect's Instructions" in regard to.

(a) The variation or modification of the design, quality or quantity of works or the addition or omission or substitution of any work.

(b) Any discrepancy in the drawing or between the Bill of Quantities and / or Drawings and / or specification.

(c) The removal from the site of any material brought thereon by the Contractor and the substitution of any other materials therefore.

(d) The removal and/ or re-execution of any works executed by the Contractor.

(e) The dismissal from the works of any persons employed thereupon.

(f) The opening up for inspection of any work covered up.

(g) The amending and making good of any defects

The contractor shall forthwith comply with and duly execute any work as per Architect's instructions provided always that verbal instructions, directions and explanations given to the Contractor or his representative upon the works by the Architect shall, if involving a variation, be confirmed in writing by the Contractor within seven days, and if not dissented from in writing within a further seven days by the Architect, such shall be deemed to be Architect's instructions within the scope of the Contract.

**3. Drawings & Bill of Quantities & Agreement** :

The Contract shall be executed in triplicate and the Architect, the RGCB and the Contractor shall be entitled to executed copy each for their use. The Contractor on the signing hereof shall be furnished by the Architects free of cost one copy of each of the said drawings and of the specification and one copy of all drawings on the works and the Architect or his representative shall at all reasonable time have access to the same. Before the issue of the final certificate to the contractor he shall forthwith return to the architect all drawings and specification.

**4. Contractor to provide everything necessary at his cost:**

The Contractor shall provide at his cost everything necessary for the proper execution of the works according to intent and meaning of the Drawings and Bill of Quantities taken together with whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from and if the Contractor finds any discrepancy in the drawings or between the drawings, and Bill of Quantities, he shall immediately and in writing refer same to the Architect who shall decide which is to be followed.

**5. Authorities, Notices, Patents:**

The Contractor shall conform to the provisions of any Act of the Legislature relating to the works, and to the regulations and bye-laws of any authority, and of any water, electric supply and other companies and/ or authorities with whose systems the structure is proposed to be connected, and shall, before making any variations from the drawings or specifications that may be necessitated by so conforming, give to the architect written notice, specifying the variation proposed to be made and the reason for making it and apply for instructions thereon. In case the Contractor does not within ten days receive such instructions he shall proceed with the work conforming to the provisions, regulations, or bye-laws in question, and any variations so necessitated shall be reported to the RGCB.

The Contractor shall bring to the attention of the Architect all notices required by the said Acts, regulations or bye-laws to be given to any authority and pay to such authority

or to any public office of all fees that may be properly chargeable in respect of the works, and lodge the receipts with the Architect for arranging reimbursement, if so provided for in the contract.

The Contractor shall indemnify the RGCB against all claims in respect of patent rights, and shall defend all actions arising from such claims, and shall himself pay all royalties, license fees, damages, cost and charge of all and every sort that may be legally incurred in respect thereof.

**6. Setting out of Works:**

The Contractor shall set out the works and shall be responsible for the true and perfect setting out of the same and for the correctness of the positions, levels, dimensions, and during the progress of the works or within a period of two years from the completion of the works, the contractor shall, if so required, at his own expense rectify any such error to the satisfaction of the Architect.

**7. Materials & Workmanship to conform to descriptions**

All materials and workmanship shall so far as procurable of the respective clients described in the Bill of Quantities and / or specifications and in accordance with the Architect's instructions and shall upon the request of the Architect, furnish him with all invoices, account, receipts and other vouchers to prove that the materials comply therewith. The Contractor shall at his own cost arrange for and/or carry out test of any materials which the Architects may require.

**8. Contractors Superintendence and representative on the works:**

The Contractor shall give all necessary personal superintendence during the execution of the works, and as long thereafter as the Architect may consider necessary until the expiry of the "Defects Liability Period". The Contractor shall also during the whole time the works are in progress employ a competent qualified and experienced Engineer (with suitable supporting staff) who shall be constantly in attendance at the works while the men are at work. Appointment of such contractor's personnel should be informed to Architect and the RGCB. Any directions, explanations, instructions or notices given by the Architect to such representative shall be held to be given to the Contractor.

**9. Dismissal of workmen:**

The Contractor shall on the advice of the Architect/RGCB immediately dismiss from the work any person employed thereon by him who may, in the opinion of the Architect, be incompetent or misconduct himself and such persons shall not be again employed on the works without the permission of the Architect/RGCB.

**10. Access to work:**

The RGCB, the Architect and their respective representatives shall at all reasonable times have free access to the work and / or to the workshops, factories or other places where materials are lying or from which they are being obtained and the Contractor shall give every facility to the RGCB, the Architect and their representatives necessary for inspections and examination and test of the materials and workmanship. No person not authorized by the RGCB or the Architect except the representatives of public authorities shall be allowed on the works at any time.

**11. Assignment & sub-letting:**

The whole of the works included in the contract shall be executed by the Contractor and the Contractor shall not directly or indirectly transfer, assign or under-let the contract or any part/share thereof or any interest therein without the prior written consent of the RGCB and no undertaking shall relieve the Contractor from the full and entire responsibility of the contract or from active superintendence of the works during their progress.

**12. Bill of Quantities:**

The Bill of Quantities unless otherwise stated shall be deemed to have been prepared in accordance with the standard Method of Measurement. Any error in description or in quantity or in omission of items from the Bill of Quantities shall not vitiate this contract but shall be rectified and the value thereof, as ascertained by the architect, shall be added to or deducted, from the rectification of errors, if any, shall be allowed in the Contractor's Schedule of Rates.

**13. Sufficiency of Bill of Quantities:**

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of Bill of Quantities, tender for the works and of the prices stated in the Bill of Quantities and/or the schedule of rates and prices, which rates and prices shall cover all his obligations under the Contract, and all materials and things necessary for the proper completion of the works.

**14. Measurement of work:**

The Architect may from time to time intimate to the Contractor and the RGCB that he requires the works to be measured, and the Contractor shall forthwith attend or send a qualified agent to assist the Architect or his Engineer in taking such measurements and calculations and to furnish all particulars or to give all assistance required by any of them.

Should the Contractor not attend or neglect or omit to send such Agent then the measurement taken by the Architect or his Engineer shall be taken in accordance with the Mode of Measurements detailed in the specifications.

The Contractor or his agent may at the time of measurement take such notes and measurements as he may require.

All authorized extra works, omissions and all variations made with the Architects' knowledge, and sanctioned by him in writing shall be included in such measurements.

**15. Prices for extras etc. ascertainment of**

The contractor may, when authorized , and shall , when directed, in writing by the Architects with the approval of the RGCB add to, omit from or vary the works shown upon the drawings, or described in the specification, or included in the Bill of Quantities, but the contractor shall make no addition, omission or variation without such authorization or direction. A verbal authority or direction by the Architects shall, if confirmed by them in writing within seven days, be deemed to have been given in writing. Prices shall be fixed on rates approved by the Architect.

**16. Unfixed materials when taken into account to be property of the RGCB**

Where in any certificate (of which the contractor has received payment), the Architect has included the value of any unfixed materials intended for and/or placed on or adjacent to the works such materials shall become the property of the RGCB and they shall not be removed except for use upon the works, without the written authority of the Architect. The contractor shall be liable for any loss of, or damage to, such materials.

**17. Removal of improper work**

The Architect shall, during the progress of the works has power to order in writing from time to time the removal from the works within such reasonable time or times as may be specified in the order, of any materials which in the opinion of the Architect are not in accordance with the specifications or the instructions of the Architect, the substitution of proper materials, and the removal and proper re-execution of any work execution of any work executed with materials or workmanship not in accordance with the drawings and specification or instructions and the Contractor shall forthwith carryout such order at his own cost. In case of default on the part of the Contractor to carry out such order, the RGCB shall have the power to employ and pay other persons to carry out the same, and all expenses consequent thereon, or incidental there to, as certified by the Architect shall be borne by the Contractor or may be deducted by the RGCB from any moneys due, or that may become due, to the Contractors.

**18. Defects after virtual completion:**

Any defect, shrinkage, settlement or other faults which may appear within the "Defects Liability Period" within 24 months after the virtual completion of the works, arising in the opinion of the Architect from materials or workmanship not in accordance with the Contract, shall upon the directions in writing of the Architect, and within such reasonable time as shall be specified therein, be amended and made good by the Contractor at its own cost and in Case of default the RGCB may employ and pay other persons to amend and make good such defects at the risk and cost of the contractor.

**19. Certificate of Virtual Completion & Defects Liability Period:**

The works shall not be considered as completed until the Architect has certified in writing that they have been virtually completed. The Defects Liability Period of 24 months shall commence from the date of such certificates.

**20. Insurance in respect of damages to persons and Property**:

The Contractor shall be responsible for all injury or damage to persons, animals or things, and for all damage to property, which may arise from any act or omission on the part of the Contractor or any sub-contractor or any nominated sub-contractor or any of their employees. The contractor shall insure the works against all risk(CAR) for a value of 10% above the PAC in the joint name of the RGCBs and the contractor and deposit the policy with the RGCB.

**21. Date of Commencement and completion**

The contractor shall be allowed admittance to the site on the 'Date of Commencement' stated in the Appendix hereto, or such date as may be specified by the Architect and he shall thereupon and forthwith begin works and shall regularly proceed with and complete the same (except such painting or other decorative work as the Architect may desire to delay) on or before the 'Date of Completion' stated in the Appendix subject nevertheless to the provisions for extension of time herein after contained.

**22. Cancellation of Contract for non-completion in original / extended time.**

If the contractor fails to complete the works by the date stated in the Appendix or within any extended time and the Architect certifies in writing that in his opinion the same ought reasonably to have been completed the RGCB may take action to issue notice and terminate the contract at the risk and cost of the contractor.

**23. Delay & extension of time**

If in the opinion of the Architect the works be delayed (a) by force majeure or (b) by reason of any exceptionally inclement weather or (c) by reason of proceedings taken or threatened by or dispute with adjoining or neighboring RGCBs or public authorities arising otherwise than through the Contractor's own default or (d) by the works or delays of other Contractors or Tradesmen engaged or nominated by the RGCB or the Architect and not referred to in the Bill of Quantities and/ or Specifications or (e) by reason of Architect's instructions as per Clause 2 hereof or (f) by reason of civil commotion, local combination of workmen or strike or lockout affecting any of the building trades or (g) in consequence of the Contractor not having received in due time necessary instructions from the Architect for which he shall have specially applied in writing or (h) from other cause which the Architect may certify as beyond the control of Contractor or (i) in the event, the value of the work exceed the value of the Priced Bill of Quantities owing to variation, the Architect may with previous approval in writing of the RGCB make a fair and reasonable extension of time for completion of the Contract works. In case of such strikes or lockout the contractor shall immediately give written notice thereof to the Architect but the Contractor shall nevertheless constantly use his endures to prevent delay and shall do all that may reasonably be required to the satisfaction of the Architect to proceed with work. This period of extension will be over and above the grace period allowed as per special conditions of contract.

**24. Failure by Contractor to comply with Architect's instruction**

If the Contractor after receipt of written notice from the Architect requiring compliance within ten days fails to comply with such further drawing and / or Architect's instruction with the RGCB may employ and pay other persons to execute any such Architects work whatsoever that may be necessary to give effect thereto, and all costs incurred in connection therewith shall be recoverable from the contractor by the RGCB on the Certificate of the Architect as a debt or may be deducted by him from any moneys due to the Contractor.

**25. Termination of Contract by the RGCB:**

If the Contractor being an individual or a firm commits any "act of insolvency" or shall be adjudged an Insolvent or being an incorporated company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily or subject to the supervision of the court and the official Assignee or the Liquidator in such acts of insolvency or winding up, as the case may be, shall be unable within seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of the Architect that he is able to carry out and fulfill the contract and to give security therefore, if so required by the Architect.

Or if the Contractor (when an individual, firm or incorporated Company) shall suffer execution or other process of court attaching property to be issued against the Contractor.

Or shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractor.

Or shall assign or sublet this contract without the consent in writing of the RGCB first had and obtained.

Or shall charge or encumber this contract or any payments due or which may become due to the Contractor hereunder.

Or if the Architect shall certify in writing to the RGCB that the contractor.

(i) Has abandoned the Contract, or

(ii) Has failed to commence the works, or has without any lawful excuse under these conditions suspended the progress of the works for fourteen days after receiving from the Architect notice to proceed or

(iii) Has failed to proceed with the works with such due diligence and failed to make such due progress as would enable the works to be completed within the time agreed upon, or

(iv) Has failed to remove materials from the site or to pull down and replace work for seven days after receiving from the Architect written notice that the said materials or work were condemned and rejected by the Architect under these conditions, or

(v) Has neglected or failed persistently to observe and perform all or any of the acts, matters or things by the contract to be observed and performed by the Contractor for fourteen days after written notice shall have been given to the Contractor requiring the Contractor to observe or perform the same.

Then and in any way of the said cases the RGCB may, notwithstanding any previous waiver, after giving fourteen days notice in writing to the Contractor, terminate the contract, but without thereby affecting the powers of the Architect or the obligations and liabilities of the Contractor, the whole of which shall continue in force as fully as if the contract had not been so terminated, and as if the works subsequently executed had

been executed by or on behalf of the Contractor. And further, the RGCB by his agents or servants may enter upon and take possession of the works and all plants, tools, scaffoldings, sheds, machinery steam and other power utensils and materials lying upon the premises or the adjoining lands or roads, and use the same as his own property or may employ the same by means of his own servants and workmen in carrying on and completing the works or by employing any other contractor or other person or persons to complete the works, and the contractor shall not in any way interrupt or do any act, matter or thing to prevent or hinder such other contractor or other person or persons employed for completing and finishing or using the materials and plant for the works. When the works shall be completed or as soon thereafter as convenient the Architect shall give a notice in writing to the contractor to remove his surplus materials and plant, and should the contractor fail to do so within a period of 14 days after receipt thereof by him, the RGCB may sell the same by public auction, and give credit to the Contractor for the net amount realised. The Architect shall thereafter ascertain and certify in writing under his hand what (if anything) shall be due or payable to or by the RGCB, for the value of the said plant and materials so taken possession of by the RGCB and the expense or loss which the RGCB shall have been put to in procuring the works to be completed and the amount, if any, owing to the contractor and the amount which shall be so certified shall thereupon be paid by the RGCB to the Contractor or by the Contractor to the RGCB, as the case may be, and the Certificate of the Architect shall be final and conclusive between the parties.

**26. Termination of Contract by Contractor:**

If the payment of the amount payable by the RGCB under Certificate of the Architect shall be in arrears and unpaid for sixty days after notice in writing and requiring payment of the amount as aforesaid shall have been given by the Contractor to the RGCB, or if the RGCB interferes with or obstructs the issue of any such certificate, or if the RGCB shall repudiate the Contract, or if the works be stopped for three months under the order of the Architect or the RGCB or by an injunction or other order of any court of law, then and in any of the said cases the Contractor shall be at liberty to terminate the Contract by notice in writing to the RGCB, through the Architect, and he shall be at liberty to terminate the Contract by notice in writing to the RGCB, through the Architect, and he shall be entitled to recover from the RGCB, payment of all works executed.

In arriving at the amount of such payment the net rates contained in the Contractor's original tender shall be followed or where the same may not apply valuation shall be made in accordance with Clause 16 hereof.

**27 Payment Mode & Procedure**

(a) No work will be paid for unless thoroughly good and fully in accordance with the specifications and should due to inadvertence bad work be passed and paid for, it will nevertheless be perfectly competent for the RGCB to strike the same out of the account at any future time and recover the value at any date previous to or at the time of granting the final certificate.

(b) Interim contract certificates are subject to any later adjustments that may be deemed necessary at the discretion of the RGCB and shall not create a liability to him to pay for variations of work not specifically accepted by him.

(c) No certificate of the RGCB nor any sum paid shall affect or prejudice his rights against the Contractor or release him of his contractual obligations or be interpreted as approval of the materials supplied or works done.

**Procedure for preparation and submission of contract certificates and other Bills for payment**

**Contract Certificate:** When the Contractor has carried out works to such extent to justify calling for an interim contract certificate referred as 'RA Bills' as per the provisions of the contract, he shall proceed to prepare and submit for payment papers in the following manner.

All papers should carry the name of work the date of the measurement recording, the contract no., chronological serial no. of the contract, page numbers should be serially marked.

(a) **Measurements**

1. The measurements shall be recorded by the Architect's Engineer jointly with Contractors authorized representative and record them directly in the Measurement Books and shall be signed at the end of each session of measurement or the day's work as the case may be, by both the parties (Architect's Engineer and the Contractor). Initials of the Engineer with date should be put on every page. The measurements are to be check measured by another senior level Engineer of the Architect.

2. The M.book shall be in the custody of the Engineer of the Architect.

3. Extra or deviated items as claimed by the Contractor shall not be recorded in the M.book until they are approved by the competent authority.

4. The Contractor shall then prepare his detailed bill, in quadruplicate in the name of the RGCB (Original, duplicate & quadruplicate) based on the certified measurements, and the accepted rates applicable for each item. There shall be an abstract of the value of works measured for each appendix. The quantities given herein shall be the total upto date quantities. The deduction to be made such as Security Deposit, Income tax, Sales tax, Labour Welfare Fund, advances already made on earlier bills, cost of materials if any issued etc. will be made and the net amount will be arrived at. These together with Photostat copy of accepted 'Measurements' sheets along with the M.book shall be submitted to the Architect with a covering letter addressed the RGCB. He will retain the quadruplicate for his reference. A copy of the covering letter should be sent to the RGCB.

5. The Architect shall then process the bill making correction, if any, required and forward the original and one copy to the RGCB for payment.

6. The RGCB shall verify the bills, incorporate necessary corrections, wherever deemed necessary, get it audited and arrange for the payment. Payment shall be by cheques and pay orders.

7. Extra items, which are not ordered in writing by the RGCB, should not be included in the measurements.

**28. Certificate of Payments:**

a) The Architect shall have power to withhold any Certificate if the works or any parts thereof are not being carried out to his satisfaction.

b) The Architect may by any Certificate make any correction in any previous Certificate which shall have been issued by him.

c) No payment shall be made to the Contractor if the Contractor fails to insure the works and keep them insured till the issue of the Virtual Completion Certificate.

d) Payments upon the Architect's Certificate shall be made within the periods named in the Appendix as "Period for honour of Certificates" after such Certificates have been delivered to the RGCB.

e) **Arbitration will not be a means to settle any dispute arising in the context.**

**29. Right of Technical Scrutiny:**

The RGCB shall have a right to cause a technical examination of the works by any of the persons or organizations as appointed by the RGCB and all bills of the contractor including all supporting vouchers, abstracts etc of all bills. If as a result of this examination or otherwise any sum is found to have been over paid or over certified it shall be lawful for the RGCB to recover the sum from any payment due to the contractor for this work or any other work or works being carried out by the contractors elsewhere under the RGCB.

**30. RGCB entitled to recover compensations paid to workmen**

If, for any reason, the RGCB is obliged, by virtue of the provisions of the workmen's compensation Act, 1923, or any statutory modification or re-enactment thereof to pay compensation to a workman employed by the contractor in execution of the works, the RGCB shall be entitled to recover from the contractor the amount of compensation so paid, without prejudice to the rights of the RGCB under the said Act. The RGCB shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due to the contractor. The RGCB shall not be bound to contest any claim made against it under the said Act, except on the written request of the contractor and upon his giving to the RGCB full security to the satisfaction of the RGCB for all costs for which the RGCB might become liable in consequence of contesting such claim.

**31. Abandonment of works:**

If at any time after the acceptance of the tender, the RGCB shall, for any reasons whatsoever not require the whole works or any part of the works to be carried out, the Architect shall give notice in writing to the contractor who shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the whole works.

**32. Return of Surplus materials:**

Surplus of any material issued by the RGCB, shall be returned at the end of the contract, in good condition failing which the cost there of will be recovered.

**33. Right of RGCB to terminate Contract in the event of death of contractor if individual**

Without prejudice to any of the rights or remedies under this contract, if the contractor, being an individual, dies the RGCB shall have the option of terminating the contract without incurring any liability for such termination.

**34. Force Majeure**

i. Any Failure or delay in the performance by either party hereto of its obligations under his contract shall not constitute a breach thereof or give rise to any claims for damages if, and to the extent that it is caused by occurrences beyond the control of the party affected, namely, acts of God, floods, explosions, wars, riots, storms, earthquakes, insurrection, epidemic or other natural disasters. The party so affected shall continue to take all actions reasonably within its power to comply as far as possible with its obligations under this Contract. The affected party shall promptly notify the other party after the occurrence of the relevant event and shall use every reasonable effort to minimize the effects of such event and act in all good faith with due care and diligence.

ii. In the event of the effect of force majeure continuing beyond the period of one hundred and eight (180) days, the parties shall mutually decide whether or not to terminate this contract. In the event of termination of contract, the contractor shall be paid for the work done and which has been accepted and certified by Architect and shall not assert any additional claims against the Client.

## 9. TECHNICAL SPECIFICATIONS

### SPECIFICATION OF MATERIALS

**1. STAINLESS STEEL TABLE TOPS**

A. Where SS tops are called for they will be of not less than **16GA, 304 Grade SS 18/8** Ni-Cr. finished in satin finish, with all resulting edges rounded with no burrs or other excess material left. Where Splashes are mentioned, they are to be turned up 150 mm and returned 25mm at 45 degree to wall and turned down 12mm, with all exposed ends closed.

B. Tops will be sound deadened properly and to be reinforced underneath with 32x32x3mm thick **Mild Steel angle** framework reinforcing outside edge.

**2. UNDER SHELVINGS**

A. Where under shelving is specified, under shelves will be made of **18GA. SS.** All shelving will be turned down on all sides approximately 40mm and in 12mm in channel shape, with resulting corners cut out to fit contour of leg. Shelving will be welded to legs and will be close fitting between tubular leg support and foot.

B. Under shelving will be reinforced underneath with 32x32x3mm thick **Mild Steel angle** framework reinforcing outside edge.

**3. LEGS**

All legs to be constructed on **38mm dia No. 16GA SS** 304 Grade, 18/8 Ni-Cr. tubing cold drawn, annealed and pickled spaced not more than 1800mm CC. All legs will be uniform in finish.

**4. FEET**

All legs will be provided with adjustable **Nylon bullet feet**, having an integrally formed shaft, with a minimum adjustment of approximately 40mm. Feet will be close fitting between tubular leg support and foot

**5. LEG CROSS BRACING**

All leg cross bracing, where required are to be constructed on **25mm dia 16G SS** pipe. All cross bracing to run horizontal between all legs, approximately 150 mm above floor, unless otherwise specified. All joints will be welded around entire perimeter, forming complete seal, with all weld ground and finished. Such cross brace to be reinforced by diagonal section of tubing and set not less than 150mm out at each side.

**6. SINKS & DRAINBOARDS**

All sinks and drains boards will be constructed of **16GA SS** unless otherwise specified, with all joints neatly welded, ground and polished smooth. All front and free standing edges to be turned out 12mm @45° and turned down 50mm and in 12mm. Raised front and ends of drain board are to be level with adjacent equipment and is not to follow pitch of drain board.

## 10.SPECIAL CONDITIONS FOR EQUIPMENTS

1.0 Dimensions and other measurements given in these documents and drawings should be deemed as approximate only.
The successful tenderer should in the first instance, depute a competent man to study the drawings and details at site, take accurate measurement of all details and other requirements, prepare drawings and get these approved by the Architect before commencing the work. If any co-ordination with other agencies are required for information or otherwise, this person should request for such, in writing and get them clarified before finalizing the drawings.

2.0 Payment shall be made for the various parameters as actually measured on completion of work.
No claim for compensation for damage or replacement or other items supplied incorrectly fabricated shall be entertained on any account

3.00 All materials and services shall satisfy ISI specifications, samples of these must be furnished and got approved by the Architect.

4.0 The details mentioned above are indicative and the contractor has to include all standard features and safety devices in the scope of supply. All such details shall be clearly enumerated in their Tender.

**5.0 The Bidder should have proper service and maintenance facility at Trivandrum.**

5.01 The Bidder should have proper service and maintenance facility at Trivandrum

5.02 Sufficient stock of essential spare parts shall be ensured at such maintenance facility

5.03 The Bidder/Contractor has to assure availability of spare parts supply for the equipments supplied for a minimum period of 20 years from the date of supply. No plea of obsolescence will be entertained during this period for any non-availability of spare parts and consequent down time.

5.04 **Down Time:**

(a) Response time of fault-repair calls shall be 12 hours or less and actual repair time shall not exceed 24 hours. For any period in excess, due intimation shall be given in advance.
(b) Power rating (motor etc.) and standard projected power consumption shall be specified by the bidder for each equipment quoted for

**7. BAIN-MARIES-ELECTRIC**

Bain Marie top will have the cut out to receive specified number of containers.
Cut out will have 12 mm raised border in order to hold the pans properly. Pans will be inserted in a water chamber made out of 18G SS and insulated properly with 2 layers of asbestos insulation. Water chamber will have the provision for water inlet & drain outlet connected with ball lever valve. Bottom of units for electric operation will be furnished with immersion heating elements. Complete with control knob, thermostatic sleeve and dial setting for temperature desired. False bottom to be constructed to clear immersion heating element.

**8. BURNERS**

Wherever cooking ranges are mentioned, LP & HP Burners will be of 'Standard' make and with needle valve & one number pilot burner for each unit. All the gas ranges will have proper air vents at rear and both sides.

**9. OVENS**

Where ever ovens are mentioned, will be of Electric operated with temperature indicator, thermostatic control, Spring loaded door and Glass wool insulation

**10 REFRIGERATOR/ FREEZER**

All the refrigerators/freezers will have a temperature range of -10°C to 0°C for freezers and 0°C to 10°C for Refrigerators with Digital control. Compressor will be of Kirloskar make and with PUF insulation all around. The Doors will spring loaded with Pad lock arrangement. Each compartment will have 2 No SS adjustable rod shelf.

## 11. PREAMBLE TO SHEDULE OF QUANTITIES FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF KITCHEN EQUIPMENTS

**1.00 Introduction**

The works shall be executed in accordance with the Drawings, Designs and Specifications, to satisfy the objects and requirements intended by the RGCB.

**2.00 General**

2.01 The contractor shall furnish all labour, materials, equipment, tools appurtenances, services and temporary work to provide and complete the Supply, installation, testing and commissioning of kitchen equipment work all in perfect working order to the satisfaction of the RGCB/Consultants, supply authorities and all concerned authorities whose permissions are necessary.

2.02 All Builders work in connection with supports, brackets etc.

2.03 Cutting openings, chases etc. in floors, walls and ceilings for installation and making good, after all trades are in position.

2.04 The Kitchen Equipment installation shall be complete in all respects and any item not included in the specification but essential for installation and functioning of the Kitchen Equipment system shall be deemed to be included in the scope of the specification whether specifically mentioned in the Technical and General Specifications or not.

2.05 In the interest of standardization the RGCB reserves the right of selecting particular types and makes of materials and accessories and the contractor shall provide materials and accessories of the particular make if so required.

2.06 The Contractor has to include for all requirements such as scaffolding, making openings/grouting, welding, jointing materials, gaskets, nuts, bolts, screws, paint etc.

2.07 The RGCB reserves the right to award any or all the work to any agency.

2.08 This Schedule shall be fully priced and the extension and totals duly checked. The rates for all items shall be written in INK. The entries under amount column shall be rounded off to the nearest rupees.

2.09 No alteration whatsoever is to be made to the description of the items in the Schedule of Quantities unless such alteration is authorized in writing by the RGCB. Any such alterations, notes or additions, unless authorised in writing shall be disregarded when the priced offer is considered.

2.10 In the event of an error occurring in the amount column of the Schedules, as a result of wrong extension of unit rate and quantity, the unit rate quoted by the tenderer shall be regarded as firm and the extensions shall be amended on the basis of rates. The unit rates shall be furnished in words also to avoid ambiguity.

2.11 All errors in totaling the amount column and in carrying forward totals shall be corrected

2.12 Unless otherwise stated all measurements shall be taken in accordance with Bureau of Indian Standard latest revisions/additions

2.13 Any error(s) in description or in quantity or omission of items from the contract schedule shall not vitiate this contract but shall be corrected and deemed to be a variation required by the RGCB.

2.14 Storage and security of the contractor's materials and also RGCB's material and equipment, while in contractor's custody shall be the responsibility of the contractor.

2.15 **Water and electricity required for the installation and commissioning of the Kitchen equipment shall be provided at one point by the RGCB, on chargeable basis**

**3.00 Drawings and Data**

Within two weeks of placement of order/letter of intent contractor shall furnish the following drawings/data for perusal by RGCB.

a) General arrangement drawing of the equipment's showing plan, elevations, sectional views, mounting details, foundation plans, weights etc. details of Motor(s) and other major components.
b) Single line diagram, if necessary
c) Drawing showing Layout details, clearances
d) Bill of materials
e) Descriptive technical catalogues, characteristic curves and technical particulars of all the various equipments offered.

**4.00 Paint and finish**

All metal work shall be properly cleaned and treated to inhibit rust and corrosion and applied with one coat of ready mix type zinc chromate primer and two coats of synthetic enamel paint as per shade approved by Architect. If surrounding atmosphere is specified as corrosive in Data Sheets the finishing paint shall be corrosion resisting for the type of atmosphere specified.

Painting by powder coating process shall be done wherever required as per specification

**5.0 The Bidder should have proper service and maintenance facility at Trivandrum.**

5.01 The Bidder should have proper service and maintenance facility at Trivandrum

5.02 Sufficient stock of essential spare parts shall be ensured at such maintenance facility

5.03 The Bidder/Contractor has to assure spare parts supply for the Kitchen Equipment supplied for a minimum period of 20 years from the date of supply. No plea of obsolescence will be entertained during this period for any non-availability of spare parts and consequent down time.

**6.00 Documents mutually complementary**

The several documents forming the Contract are to be complementary to one another and in case of ambiguities/discrepancies the same shall be explained and clarified by the RGCB who shall clarify to the contractor in what manner the work is to be carried out.

**7.00 Instruction during execution**

The Consultants shall issue further drawings, details, directions and explanation collectively referred to as "Site Instructions" in regard to:

7.01 Variation for modification of the design, quality or quantity of works as addition or omission or substitution of any work.

7.02 Any discrepancies in the drawings or between the Schedule of Quantities and/or specifications/or drawings.

7.03 Removal from the site of any material brought by the Contractor and substitution by any other materials.

7.04 The dismissal from work of any person employed thereupon

7.05 Removal/re-examination of any work executed.

7.06 Opening up for inspection of any work covered up.

7.07 Oversight on the part of the Engineer/his assistant to disapprove any defective work or material shall not prejudice the RGCB/consultant thereafter to disapprove such work or material and to order pulling down, replacement, removal, breaking up or reconstruction.

**8.00** The contractor shall make his own arrangements for the engagement of all labour and shall be responsible for regulation of their service conditions, work conditions, in conformity with all Acts, Regulations, Rules or order of competent authority under relevant laws in force during the pendency of the contract.

**9.00** Contractor shall indemnify the RGCB from all claims relating to the workers/staff/sub-contractor/salaries, wages, overtime, leave provident fund, medical facilities, gratuity, bonus or any other claim as applicable and stipulated in any statutory provision, rules or order of competent authority.

**10.00** All materials so far as procurable shall be of reputed make in the category of manufacture, bear the stamp of quality of the B.I.S wherever applicable. The contractor shall furnish upon the request of RGCB/Consultants documentary proof, test certificates etc relevant to such materials.

**11.00 Pricing**

a) Rate quoted shall include making openings or chases, grouting, welding, and making good the same to rough ground as directed by Engineer-in-charge.

b) Reinforcement work and water proofing work shall not be damaged. Repairing of the same if demanded due to any damages shall be got done by the specialised agencies engaged for the work, at the risk and cost of the party responsible for such damages.

c) On completion of erection, the contractor shall clean all the equipment thoroughly and inspect the entire installation for correctness of alignment, completeness of installation and furnish report on completion and completeness of erection. Thereafter pre-commissioning tests such as insulation readings, running and load tests etc shall be conducted and results furnished to the Architect.

**12.00** Entire works including material supplied by the RGCB for erection by the contractor shall be insured at contractor's cost in the joint names of the RGCB and contractor, and the policy deposited with the RGCB, before commencement of the work.

**13.00 Safety Earthing**

13.01 Entire earthing shall be done with copper strip/copper wire of various sizes as specified.

13.02 All equipment not intended to be live shall have an effective connection to earth in accordance with Indian Electricity Rules and IS:3043.

**14.00 Scope of Work**

14.01 The Tenderers should note that they have to carry out rectification of all defects, wherever necessary without any charge during the defect liability period of 24 (Twenty Four) months from the date of Virtual Completion.

14.02 The quoted rated shall remain firm for the period of 60 (Sixty) days from the date of opening of the priced Bid; and the SITC work has to be completed in all respects within 2 (Two) months, as specified.

14.03 Material and workmanship shall be strictly as per tender specification. Approved makes of materials are to be used.

## 12. LIST OF DRAWINGS

| | | |
|---|---|---|
| 1. | Drawing No. RGCB /HB/KD/01 | KITCHEN MEP COORDINATED LAYOUT |
| 2. | Drawing No.1/4 | CIVIL_DETAILS |
| 3. | Drawing No.2/4 | PLUMBING_DETAILS |
| 4. | Drawing No.3/4 | KITCHEN ELECTRICAL_LAYOUT |
| 5. | Drawing No.4/4 | EQUIPMENT_DETAILS |

NOTE:

1. Do not scale off this drawing.
2. All dimensions are in CM unless noted otherwise
3. All dimensions to be checked on site before commencement of any works.
4. The contractor must submit fully detailed shop drawing for all aluminium works along with samples for sections, colours and glazing for Eng. Approval.
5. Any architectural detail not shown on drawing either to be clarified before the agreement or to be carried out as instructed by the Architect at no extra cost.
6. Architect has all the rights to provide any construction drawings and details to be executed at site.
7. Builders work in connection with A/C, Electrical, Installations, plumbing are part of the main contract.
8. All concrete surface hardeners, coating materials, sound insulation treatment, joinery and aluminium works to be applied by approved specialists APPLICATORS/ SUBCONTRACTORS.
9. Exact locations of pits, trenches and under ground structural elements to be finalized at site.
10. Waterproofing of substructure to be done as specified on structure drawing
11. All plaster is sand cement spray plaster or equivalent quality manual application.
12. All exposed wall and free standing columns in the parking area to be protected by rubber crash guard and to be installed 500mm above SSL upto 1500mm (to Engineer approval).

| NO | DATE | PRINTS ISSUED TO | BY |
|---|---|---|---|
| A3X10 | 7.05.19 | TENDER | RAHUL |
| A3X2 | 5.01.18 | TENDER | RAHUL |
| A2X6 | 15.11.18 | epli, rgcb, i&m | RAHUL |

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The contractor must verify all dimensions of the job and report any discrepancies to the architect before executing the work.

| DATE | REV. No: | REVISION |
|---|---|---|

PROJECT

RGCB AT AAKULAM, TRIVANDRUM

CLIENT

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

ARCHITECTS

Architect Hafeez Contractor
IYER& MAHESH CONSORTIUM
ARCHITECTS, ENGINEERS & INTERIOR DESIGNERS
15 / 1989(7)
NARAYANA TOWERS,
VAZHUTHACAUD ,
TRIVANDRUM - 695014 ,
INDIA
PHONE : 2325527 , 2325543.
IN FAX : 0471 - 2325538

DRAWING TITLE

HOSTEL BLOCK
*KITCHEN MEP LAYOUT*

| | |
|---|---|
| JOB No. IM/13/1032 | DRAWING No. RGCB/HB/KD/01 |
| DATE : 05 / 04 / 13 | |
| SCALE 1:100 | REV. No: R1 |
| DESIGNED BY: N.MAHESH | CHECKED BY: ARJUNAN.C / DRAWN BY: RAHUL |

HOSTEL BLOCK
*KITCHEN MEP COORDINATED LAYOUT*

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5. Any architectural detail not shown on drawing either to be clarified before the agreement or to be carried out as instructed by the Architect at no extra cost.
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## CIVIL DETAILS

- WALL UP TO CEILING HEIGHT
- WALL UP TO CEILING HEIGHT & TILING UP TO 2100MM
- 2100MM HIGH WALL WITH TILING
- 1250MM HIGH WALL WITH TILING & GRANITE TOP
- 1250MM HIGH WALL WITH GLASS PARTITION ABOVE UP TO 2100MM FFL

NOTE: ALL THE POINTS ARE AT ABOVE MENTIONED HEIGHTS UNLESS SPECIFIED ON THE LAYOUT

| NO | DATE | PRINTS ISSUED TO | BY |
|---|---|---|---|
| A3X10 | 7.05.19 | TENDER | RAHUL |
| A3X2 | 5.01.18 | TENDER | RAHUL |

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| DATE | REV. No: | REVISION |
|---|---|---|
| | R2 | |

PROJECT

# RGCB AT AAKULAM, TRIVANDRUM

CLIENT

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

ARCHITECTS

Architect Hafeez Contractor
IYER& MAHESH CONSORTIUM
ARCHITECTS, ENGINEERS & INTERIOR DESIGNERS
15 /1989(7)
NARAYANA TOWERS,
VAZHUTHACAUD ,
TRIVANDRUM - 695014 ,
INDIA
PHONE : 2325527 , 2325543,
IN FAX : 0471 - 2325538

DRAWING TITLE

## HOSTEL BLOCK
## *KITCHEN CIVIL LAYOUT*

| | | |
|---|---|---|
| JOB No. IM/13/1032 | | DRAWING No. |
| DATE : 05 / 04 / 13 | | RGCB/HB/KD/01/4 |
| SCALE NTS | REV. No: R2 | |
| DESIGNED BY: N.MAHESH | CHECKED BY: ARJUNAN.C | DRAWN BY: RAHUL |

## Plumbing Details

- W — COLD WATER INLET AT 500MM HT. FROM FFL.
- W1 — HOT WATER INLET AT 500MM HT. FROM FFL.
- W2 — WATER INLET AT 900MM HT. FROM FFL.
- W3 — HOT WATER INLET AT 900MM HT. FROM FFL.
- W4 — WATER INLET AT 100MM HT. FROM FFL.
- D — WALL DRAIN OUTLET AT 300MM HT.FROM FFL
- 100MM DRAIN OUTLET FLOOR LEVEL
- FLOOR GRATINGS

NOTE: ALL THE POINTS ARE AT ABOVE MENTIONED HEIGHTS UNLESS SPECIFIED ON THE LAYOUT

| NO | DATE | PRINTS ISSUED TO | BY |
|---|---|---|---|
| A3X10 | 7.05.19 | TENDER | RAHUL |
| A2X6 | 15.11.18 | epil, rgcb, i&m | RAHUL |

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| DATE | REV. No: | REVISION |
|---|---|---|

PROJECT

# RGCB AT AAKULAM, TRIVANDRUM

CLIENT

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

ARCHITECTS

Architect Hafeez Contractor
IYER& MAHESH CONSORTIUM
ARCHITECTS, ENGINEERS & INTERIOR DESIGNERS
15 /1989(7)
NARAYANA TOWERS,
VAZHUTHACAUD ,
TRIVANDRUM - 695014 ,
INDIA
PHONE : 2325527 , 2325543,
IN FAX : 0471 - 2325538

DRAWING TITLE

## HOSTEL BLOCK
## *KITCHEN PLUMBING LAYOUT*

JOB No. IM/13/1032

DATE : 05 / 04 / 13

DRAWING No. RGCB/HB/KD/02/4

SCALE NTS

REV. No: R1

| DESIGNED BY: | CHECKED BY: | DRAWN BY: |
|---|---|---|
| N.MAHESH | ARJUNAN.C | RAHUL |

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9. Exact locations of pits, trenches and under ground structural elements to be finalized at site.
10. Waterproofing of substructure to be done as specified on structure drawing
11. All plaster is sand cement spray plaster or equivalent quality manual application.
12. All exposed wall and free standing columns in the parking area to be protected by rubber crash guard and to be installed 500mm above SSL upto 1500mm (to Engineer approval).

## ELECTRICAL DETAILS

- E — IP-66 - SINGLE PHASE/6A @ 2400mm & CONTROL @ 1200MM FFL
- E1 — IP66 - SINGLE PHASE/16A @1200MM HT FROM FFL ON WALL.
- E3 — IP66 - THREE PHASE/32A @1200MM HT. FROM FFL ON WALL.
- STARTER FOR EXHAUST & FRESH AIR @ 1500 MM HT FROM FFL. TO BE PROVIDED BY CUSTOMER. (IP 66 RATED)
- SINGLE PHASE PREVENTOR @ 1500 MM HT FROM FFL. TO BE PROVIDED BY CUSTOMER. (IP 66 RATED)

NOTE: ALL THE POINTS ARE AT ABOVE MENTIONED HEIGHTS UNLESS SPECIFIED ON THE LAYOUT

| NO | DATE | PRINTS ISSUED TO | BY |
|---|---|---|---|
| A3X10 | 7.05.19 | TENDER | RAHUL |
| A3X2 | 5.01.18 | TENDER | RAHUL |

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| DATE | REV. No: | REVISION |
|---|---|---|

PROJECT

# RGCB AT AAKULAM, TRIVANDRUM

CLIENT

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

ARCHITECTS

Architect Hafeez Contractor
IYER& MAHESH CONSORTIUM
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PHONE : 2325527 , 2325543,
IN FAX : 0471 - 2325538

DRAWING TITLE

## HOSTEL BLOCK
## *KITCHEN ELECTRICAL LAYOUT*

JOB No. IM/13/1032

DATE : 05 / 04 / 13

SCALE NTS

REV. No: R1

DRAWING No. RGCB/HB/KD/03/4

DESIGNED BY: N.MAHESH

CHECKED BY: ARJUNAN.C

DRAWN BY: RAHUL

| SL NO | QTY | DESCRIPTION | OVERALL SIZE IN MM | | |
|---|---|---|---|---|---|
| | | | L | W | H |
| I | | **Loadign Unloading Bay** | | | |
| PW1 | 1 | Work Table With 1 Under Shelf & Rear Splash | 1200 | 600 | 850+150 |
| PW2 | 1 | Sink Table With Rear Splash And Over Flow Connection (Not To Use Die Pressed Sink ) | 1800 | 650 | 850+150 |
| PW3 | 1 | Hand Wash Sink With Tap | 550 | 550 | 300+150 |
| PW4 | 1 | Platform Trolley | 1200 | 600 | 900 |
| PW5 | 1 | Weighing Scale (300Kgs) | CAP: 300 KGS | | |
| II | | **Dry Grain Storage** | | | |
| DS1 | 4 | Ss Storage Biin With Lid | 450 | 600 | 700 |
| DS2 | 2 | Ss Pallets | 1500 | 600 | 250 |
| DS3 | 2 | Ss Pallets | 1150 | 600 | 250 |
| III | | **Manager Office** | | | |
| M01 | 1lot | Office Furniture | | | |
| IV | | **Main Store** | | | |
| MS1 | 1 | Weighing Scale (300Kgs): | CAP: 300 KGS | | |
| MS2 | 5 | Ss Storage Biin With Lid | 450 | 600 | 700 |
| MS3 | 3 | Ss-Storage Rack - 5 Shelves | 1460 | 550 | 1800 |
| MS4 | 1 | Ss Pallets | 1500 | 600 | 250 |
| V | | **Butchery Area** | | | |
| NV1 | 1 | 2 Door Vertical Freezer | 700 | 820 | 2050 |
| NV1A | 2 | Additional Wire Shelves For Sk6 (Pvc Coated) | | | |
| NV2 | 1 | Sink Table With Cross Support And Rear Splash And Tap(Not To Use Die Pressed Sink ) | 1800 | 600 | 850+150 |
| NV3 | 1 | Chopping Block Red Colour | 600 | 600 | 75 |
| NV4 | 1 | Ss Garbage Bin Trolely: 18G Ss Garbage Bin With Lid And Bottom Frame Fitted With 4" Dia Castors | Ø450 | | 700 |
| VI | | **Veg.Prep And Store** | | | |
| VP1 | 1 | 4 Door Vertical Refrigerator | 1400 | 820 | 2050 |
| VP1A | 2 | Additional Wire Shelves For Sk6 (Pvc Coated) | | | |
| VP2 | 1 | Ss-Storage Rack - 5 Shelves | 1460 | 550 | 1800 |
| VP3 | 2 | Veg Crate Trolley With 9 Crates | 465 | 600 | 1850 |
| VP4 | 1 | Work Table With Sink,Mixing Faucet 1 Under Shelf And Rear Splash (Not To Use Die Pressed Sink ) | 1500 | 600 | 850+150 |
| VP5 | 1 | Work Table With Cross Support Rear & Lhs Splash | 1500 | 600 | 850+150 |
| VP6 | 2 | Mobile Onion/Potato Bin Trolley | 600 | 600 | 750 |
| VP7 | SPARE | | | | |

| SL NO | QTY | DESCRIPTION | OVERALL SIZE IN MM | | |
|---|---|---|---|---|---|
| | | | L | W | H |
| VII | | **Wet Grinding** | | | |
| WG1 | 1 | Tilting Wet Grinder (Cap: 15 Liters) | | | |
| WG2 | 1 | Tilting Wet Grinder (Cap: 10 Liters) | | | |
| WG3 | SPARE | | | | |
| WG4 | SPARE | | | | |
| WG5 | SPARE | | | | |
| VIII | | **Pot Wash Area.** | | | |
| PW1 | 1 | Pot Wash Grill | 1800 | 800 | 600 |
| PW2 | 1 | Ss-Pipe Storage Rack - 4 Shelves | 1500 | 600 | 1800 |
| IX | | **South Indian Kitchen** | | | |
| NK1 | 1 | 3 In One Burner Cooking Range With 24"Vessel Rest Top Swg 14G (304) | 750 | 750 | 500 |
| NK2 | 1 | Single Burner Cooking Range With 20" Vessel Rest Top Swg 14G (304 | 750 | 750 | 500 |
| NK4 | SPARE NO. | | | | |
| NK5 | SPARE | | | | |
| NK6 | 1 | Wotk Table With Under Shelf And 2 Ohs | 2000 | 700 | 850+450+300 |
| NK7 | 1 | Ss Mobile Tandoor Charcoal Operated: | 900 | 900 | 850+150 |
| NK8 | 1 | Work Table With 1 Under Shelf & Rear Splash | 600 | 750 | |
| NK9 | 1 | Work Table With Sink,Mixing Faucet 1 Under Shelf And Rear Splash (Not To Use Die Pressed Sink ) | 900 | 750 | 850+150 |
| NK9A | 1 | Wall Mounting Shelf (1 Tier) | 1100 | 300 | 200 |
| NK10 | 1 | 3 Burner Cooking Range With Rear Spalsh | 1650 | 750 | 850+150 |
| NK11 | 1 | 2 Door Vertical Refrigerator (O/S:700X820X(2050)Ht, 550L | 700 | 820 | 2050 |
| NK12 | 2 | Additional Wire Shelves For Sk6 (Pvc Coated) | | | |
| X | | **North Indian Kitchen** | | | |
| SK1 | 1 | 3 Burner Cooking Range With Rear Spalsh | 1650 | 750 | 850+150 |
| SK2 | 1 | Work Table With 1 Under Shelf & Rear Splash: | 1200 | 750 | 850+150 |
| SK3 | 1 | Chapathi Plate Under Shelf And Rear Splash | 1500 | 750 | 850+150 |
| SK4 | 1 | Work Table With 1 Under Shelf & Rear Splash | 1500 | 600 | 850+150 |
| SK5 | 1 | Work Table With Sink,Mixing Faucet 1 Under Shelf And Rear Splash (Not To Use Die Pressed Sink ) | 1400 | 700 | 850+150 |
| SK6 | 1 | 2 Door + 3 Drawer U/C Refrigerator Without Splash | 1800 | 700 | 850+150 |
| SK6A | 2 | Additional Wire Shelves For Sk6 (Pvc Coated) | | | |
| SK7 | 1 | Pick Up Counter With Tray Slider And 2 Ohs Fitted With Rr Heater | 1500 | 600+300 | 850 |

| SL NO | QTY | DESCRIPTION | OVERALL SIZE IN MM | | |
|---|---|---|---|---|---|
| | | | L | W | H |
| XI | | **Pantry & Live Cooking Area** | | | |
| P1 | SPARE | | | | |
| P2 | 1 | Work Table With Sink,Mixing Faucet 1 Under Shelf And Rear Splash (Not To Use Die Pressed Sink ) | 1800 | 700 | 850+150 |
| P2A | 1 | Wall Mounting Shelf (2Tier) | 1800 | 300 | 300 |
| P3 | 2 | Mixi: | | | |
| P4 | 1 | Leaver Juicer | | | |
| P4A | 1 | Blender With 1 Ss Bowl - 2Ltrs Capacity | | | |
| P5 | 1 | Work Table With 1 Under Shelf, Drain Channel & Rear Splash | 1500 | 700 | 850+150 |
| P6 | 1 | Water Boiler | | | |
| P7 | 1 | Milk Boiler | | | |
| P8 | 1 | Work Table With 1 Under Shelf & Rear Splash | 1300 | 700 | 850+150 |
| P9 | 1 | Sandwich Griller | | | |
| P10 | 1 | Single Burner Cooking Range With Spreader | 1350 | 750 | 850+150 |
| P11 | | Spare No. | | | |
| P12 | 1 | Chapathi Plate Under Shelf And Rear Splash | 1200 | 750 | 850+150 |
| XII | | **Dish Wash Area** | | | |
| DW1 | 1 | Dish Drop Table With Chute,Cross Support And Rear Splash | 1800 | 750 | 850+150 |
| DW2 | 1 | Loading Table With 3 Sink,Cross Support, Rear Splash,Ss Ball Lever Valve With Over Flow Connection & Mixing Faucet (Not To Use Die Pressed Sink ) | 2100 | 750 | 850+150 |
| DW2A | 1 | Pre Rinse Spray Unit | | | |
| DW3 | 1 | Hood Type Dish Washing Machine | | | |
| DW3A | 1 | Wash & Rinse, Detergent Pump | | | |
| DW3B | SPARE | | | | |
| DW3C | 1 | Chemical For Dish Washer ( Suma Nova ) | | | |
| DW3D | 1 | Chemical For Dish Washer ( Suma Rinse) | | | |
| DW5 | 1 | Dish Rack -5 Tier | 1200 | 550 | 1800 |
| DW6 | 1 | Ss Garbage Bin Trolely | Ø450 | | 700 |
| XIII | | **Drinking Water Station** | | | |
| DWS1 | 1 | Water Station With 4 Tier Shelf | 600 | 600 | 1500 |
| DWS2 | 1 | Water Cooler (100 Ltres) | 600 | 700 | 1500 |
| DWS3 | SPARE | | | | |
| XIV | | **Hand Wash Area** | | | |
| HW1 | 1 | Waste Dumping Trolley & Cross Support | 600 | 750 | 850 |
| XV | | **Serving Area -01** | | | |
| SC1 | 1 | Pick Up Counter | 1200 | 675+300 | 850+600 |
| SC2 | 1 | 6 Cont. Bain Marie Counter With In Built Spoon Sterliser | 2300 | 675+300 | 850+600 |
| SC3 | 1 | Work Table With 1 Under Shelf & Rear Splash | 1800 | 600 | 850+150 |
| XVI | | **Drain Grating** | | | |
| DG1 | 3 | Ss Drain Grating With Trough & Strainer | 350 | 350 | 75 |
| DG2 | 6 | Ss Drain Grating With Trough & Strainer | 550 | 350 | 75 |
| DG3 | 4 | Ss Drain Grating With Trough & Strainer | 1050 | 350 | 75 |
| DG4 | 2 | Ss Drain Grating With Trough & Strainer | 950 | 550 | 100 |
| XVII | | **Exhaust Hood** | | | |
| EX-1 | 1 | Exhaust Hood | 2850 | 1250 | 500 |
| EX-2 | 1 | Exhaust Hood | 5000 | 2600 | 500 |
| EX-3 | 1 | Exhaust Hood | 2600 | 1250 | 500 |

NOTE.

1. Do not scale off this drawing.
2. All dimensions are in CM unless noted otherwise
3. All dimensions to be checked on site before commencement of any works.
4. The contractor must submit fully detailed shop drawing for all aluminium works along with samples for sections, colours and glazing for Eng. Approval.
5. Any architectural detail not shown on drawing either to be clarified before the agreement or to be carried out as instructed by the Architect at no extra cost.
6. Architect has all the rights to provide any construction drawings and details to be executed at site.
7. Builders work in connection with A/C, Electrical, installations, plumbing are part of the main contract.
8. All concrete surface hardeners, coating materials, sound insulation treatment, joinery and aluminium works to be applied by approved specialists APPLICATORS/ SUBCONTRACTORS.
9. Exact locations of pits, trenches and under ground structural elements to be finalized at site.
10. Waterproofing of substructure to be done as specified on structure drawing
11. All plaster is sand cement spray plaster or equivalent quality manual application.
12. All exposed wall and free standing columns in the parking area to be protected by rubber crash guard and to be installed 500mm above SSL upto 1500mm (to Engineer approval).

| NO | DATE | PRINTS ISSUED TO | BY |
|---|---|---|---|
| A3X10 | 7.05.19 | TENDER | RAHUL |
| A3X2 | 5.01.18 | TENDER | RAHUL |

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The contractor must verify all dimensions of the job and report any discrepencies to the architect before executing the work.

| DATE | REV. No: | REVISION |
|---|---|---|

PROJECT

# RGCB AT AAKULAM, TRIVANDRUM

CLIENT

RAJIV GANDHI CENTRE FOR BIOTECHNOLOGY

ARCHITECTS

Architect Hafeez Contractor
IYER& MAHESH CONSORTIUM
ARCHITECTS, ENGINEERS & INTERIOR DESIGNERS
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DRAWING TITLE

## HOSTEL BLOCK
## *KITCHEN EQUIPMENT LAYOUT*

JOB No. IM/13/1032

DATE : 05 / 04 / 13

DRAWING No. RGCB/HB/KD/04/4

SCALE NTS

REV. No: R1

DESIGNED BY: N.MAHESH

CHECKED BY: ARJUNAN.C

DRAWN BY: RAHUL