GRAMS: DRYLAND **Phone : 040-24532265**
E-mail: root@crida.ernet.in **040-24530163**
FAX: 040-24531802 **040-24530161**
Web Site : http://www.crida.ernet.in **040-24532243**

Central Research Institute for Dryland Agriculture

Santoshnagar, Said bad Post, Hyderabad – 500 059

INVITATION TO TENDER AND INSTRUCTIONS TO TENDERERS

Tender Number: c/o fate & monitoring unit/ **Date:**

Cost of Tender: Rs. 200-00 Bank:
D.D.No. : Branch:
Dated:

To

Dear Sirs,

On behalf of the Director, Central Research Institute for Dryland Agriculture, I invite you to tender for works as per the details furnished in the Tender Form attached herewith. The conditions of contract for undertaking the work as per the details furnished here under will be of any contract applicable to the Order placed by Central Research Institute for Dryland Agriculture, Indian Council of Agricultural Research and Research Institutes under it and special conditions detailed in the tender form (attached herewith). If you are in a position to quote for the same as per the details furnished in accordance with the requirements stated please submit your quotations in the Annexures I, II and III enclosed to tender form, in original.

The complete set of the Tender form including Annexures I,II and III in original may be submitted to office after signing on all pages by the tenderer.

Yours faithfully

Assistant Administrative Officer

TERMS AND CONDITIONS OF TENDER – PART I

Only in exceptional cases and for adequate reasons telegraphic or letter quotations will be considered if they are received from firms who are in the approved list of contractors maintained by the Indian Council of Agricultural Research provided those telegraphic or letter quotations are complete in all respects with regard to price, (itemised prices where necessary), specification, delivery and other particulars essential to enable a purchase decision to be taken and provided also the quotations are confirmed within three days from the date of receipt of tender in the prescribed form.

1. **EARNEST MONEY**: Earnest Money deposit as mentioned in the tender schedule may be paid by way of Demand Draft drawn on any schedule bank in favour of **"ICAR UNIT ACCOUNT, CRIDA, Hyderabad"** payable at State Bank of India, Edi Bazar, Hyderabad. The DD towards EMD may please be enclosed to the tender form and the tender submitted to the Director, Central Research Institute for Dryland Agriculture, Saidabad Post, Santoshnagar, Hyderabad – 500 059. Any other mode of payment will not be accepted.

2. **THE TENDER SHALL NOT BE CONSIDERED IF THE DD OF EARNEST** MONEY **DEPOSIT IS NOT SENT WITH THE TENDER**: No request for transfer of any previous deposit of earnest money will be entertained. It is understood that the tender document has been issued to the tenderer and the tenderer is being permitted to tender in consideration of the stipulation of his part that after submitting his tender, he will not reside from his offer or modify the terms and conditions thereof. Should the tenderer fail to observe and comply with the forgoing stipulation; the aforesaid amount will be forfeited to the Central Research Institute for Dryland Agriculture, Indian Council of Agricultural Research. In the event of the offer made by the tenderer not being accepted the amount of earnest money deposited by the tenderer will be refunded to him after he has applied for the same in a manner prescribed by Central Research Institute for Dryland Agriculture, Indian Council of Agricultural Research. The Earnest Money should not on any account fall short of the amount actually required.

3. PREPARATION OF TENDER :

a) The complete set of tender form should be returned in tact **in original** and pages should not be detached but when the rates are not being tendered for the corresponding space should be defaced by words as "Not Quoting".

b) If any modification of the schedule is considered necessary you should communicate the same by means of a separate letter sent with the Tender.

c) In the event of space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, bearing the Tender number and be fully signed by you. In such cases reference to the additional pages must be made in the tender form.

(SIGNATURE OF TENDERER)

4. **SIGNING OF TENDER**:

a) The tender is liable to be ignored if complete information is not given therein or of the particulars and date if any asked for in the Annexures to the tender are not fully filled in, **specific attention must be paid to the delivery dates and also to the general conditions** of the contract as the contract would be governed by them.

b) Individual signing the tender or other documents connected with the contract must specify whether he signs as:

(i)'sole proprietor' of the firm of constituted attorney of such sole proprietor.

ii) A partner of the firm if it be a partnership, in which case he must have authority to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney.

iii) Constituted attorney of the firm if it is a company.

NOTE:

1) In case of (ii) a copy of the partnership agreement of general power of attorney, in either case attested by a Notary Public, should be furnished and affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.

2) In the case of partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.

3) A person signing the tender form or any documents forming parts of the contract on behalf of another shall be deemed to warranty that he has authority to bind, such other and it, on enquiry it appears that the person so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies cancel the contract and held the signatory liable for all costs and damages.

4) Each page of the tender, schedule to tender and annexure, if any, should be signed by the tenderer and returned to the institute in **original after filling.**

5) **DELIVERY OF TENDER**: The **original** copy of the tender is to be enclosed in a double cover. The inner cover should be sealed and the outer cover should bear only address of this office without any indication that there is a tender within.

(SIGNATURE OF THE TENDERER)

Right is reserved to ignore any tender which fails to comply with the above instructions. All tenders should be sent by registered posts or delivered in person to the Institute. A separate "tender box" has been kept for this purpose in the Institute. Only one tender should be included in a cover, all tenders so enclosed in one cover be liable to be ignored.

6. **LATEST HOUR FOR RECEIPT OF TENDERS**: Unless otherwise specified in the schedule to tender your tender must reach this office not later than hours on the date of open ing of the tender. Tenders sent by hand delivery should be put in the Tender Box at this office not later than hours on the due date unless otherwise stipulated in the schedule to tender.

7. **PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN**:

   i) Firms tendering should note that their offers should remain open for **acceptance for 90 days from the date of opening of tender.** If the firms are unable to keep their offers open for the specified period, they should specifically state in the tender form the period upto which they want their tenders to remain open for acceptance. In the absence of such specifications in the tender, it will be assumed that their offers will remain open for acceptance for a period of 90 days from the date of opening.

   ii) Quotations qualified by such vague and indefinite expressions such as **"subject to immediate acceptance"** will not be considered.

8. **OPENING OF TENDER :**

   You are at liberty to be present or authorize a representative to be present at the opening of the tender at the specified time and date. The name and address of the representative who would be attending the opening of the tender on your behalf should be indicated in your tender. Please also state the name and address of your permanent representative, if any.

9. **SAMPLES:** QUOTATIONS WITHOUT SAMPLES WHERE SAMPLES ARE SPECIFICALLY CALLED FOR ARE LIABLE TO BE IGNORED.

10) **EXAMINATION OF PATTERNS OF CERTIFIED SAMPLES :**

   When sealed patterns of stores are mentioned in the schedule to the tender form of specification in those of certified samples thereof, any be seen at the place stated in the schedule to tender and should be examined by the Competent person on your behalf (who should take this invitation with him) before the tender is submitted.

(SIGNATURE OF THE TENDERER)

11) **THE PRICE MUST BE QUOTED AS BELOW:**

Complete details of the proposed work shall be as per the details mentioned in the Annexures attached therein.

i) If it is decided to ask for **excise duty/sales tax or any other charges as extra,** the same must be **specifically** stated In the absence of any such stipulation it will be presumed that the prices include all such charges and no claim for the same will be entertained. It may be mentioned here that the **Institute is not in a position to supply any 'C' or 'D' forms. Please avoid to write expression such as taxes etc., Please indicate exact amount/percentage of taxes, duties etc. payable by the Institute.**

ii) The prices quoted by the tenderers should be exclusive of sales tax (and should be clearly stated to be so) which will be paid by the purchaser, if legally leviable at the rate of ruling on the date of completion as specified in the acceptance of tender.

12) **TERMS FOR COMPLETION WORK:**

The time allowed completion of work is indicated in the Annexure – III enclosed and they he/they should be completed within the stipulated period, failing which penalty at the @ 1% per month of value of order will be imposed as per rules. This is only tentative time normally allowed. However, this may be reduced or enhanced by the Director keeping in view of the exigency of work. No extra charges for labour etc. shall be paid.

13) **RIGHT OF ACCEPTANCE :**

This office does not pledge itself to accept the lowest or any tender and reserves to itself, the right of accepting the whole or any part of the tender.

14) **COMMUNICATION OF ACCEPTANCE**:

Acceptance by the Institute will be communicated by telegram, express letter of acceptance or formal acceptance of tender. In cases where acceptance is communicated by telegram or express letter the formal acceptance of tender will be forwarded to you as soon as possible but the instructions contained in the telegram or express letter should be acted upon immediately. On approval of rates, an agreement is to be executed by the tenderer with the institute on Non-judicial stamp paper value of Rs.100/- the cost of which shall be met by the tenderer.

(SIGNATURE OF THE TENDERER)

15) **RESERVATION OF RIGHTS TO ORDER ADDITIONAL QUANTITY :**

The Director reserves the right to place order on the successful tenderer for additional work at the rates quoted by them.

16) **PRE-INSPECTION OF STORES**:

In case an order is placed on you as a result of this tender you should satisfy yourself that the work is in accordance with the terms of order and fully conform to the required specifications by carrying out through pre-inspection. Such precaution on your part should minimize the chance of rejection in inspection and consequences thereof.

The work should be carried out as per the specification. The material used should be of good and standard Quality and to the satisfaction of CRIDA. Failing to maintain standard Quality of work, the order given shall be liable for cancellation. In such cases no payment shall be allowed for the work already completed. In addition, the EMD shall be forfeited and suitable legal action shall be taken against the Contractor / Firm.

17) **OTHER CONDITIONS**:

a) **The appropriate specifications (I.S.I., IRS., ISO., etc., as the case may be)** should be annexed to or quoted in the tender and that the articles supplied will be subject to inspection and/or tests prescribed in the specifications before acceptance.

b) Late tenders (i.e., tenders received after the specified time of opening) delayed tenders (i.e., tenders received before the time of opening but after the due date and time of receipt of tenders) and post tenders offers will not be considered at all.

(SIGNATURE OF THE TENDERER)

7/-

TERMS AND CONDITIONS OF TENDER – PART II

1. CLIENT : Director, Central Research Institute for Dryland Agriculture, Santoshnagar, Hyderabad – 59.

2. The execution of work as per the details given in the tender schedule has to be completed within a period as specified in supply/work order. Please quote earliest possible guaranteed date by which you can complete the work.

3. Conditions of contract: As contained in special/general conditions of contract and schedule and annexures to the tender attached herewith.

4. Tenderers are bound to accept order for additional quantity at the rate quoted only if order is placed on them within 90 days from the date of issue of A/T.

5. In case the tenderer wants to furnish in a separate covering letter any additional information, particulars or quote conditions (e.g. those relating to allowance, discount, rebate, etc.) which cannot be accommodated in the tender form, an indication to that effect should be given in the tender form by means of a note. In the absence of such indication in the tender form the contents of the covering letter will be ignored in consideration of tender.

6. Firm should note that it is desired that their offer should remain open for acceptance for 90 days from the date of opening the tenders. In the absence of such an indication in the tender form, it will be assumed that their offers will remain open for acceptance for the period as specified.

7. The Director, CRIDA reserves right to accept/reject any tender.

TENDERERS MUST GIVE SPECIFIC ANSWERS AGAINST EACH OF THE FOLLOWING QUESTIONS. TENDERS CONTAINING EQUIVOCAL OR EVASIVE REPLIES WILL BE IGNORED.

1) Whether supply of stores in question confirm to particulars quoted in the schedule; if not, details of deviation must be stated here

2) I) Brand:

ii) Name and address of Manufacturer :

iii) Guaranteed date by which the Supply can be completed :

(SIGNATURE OF THE TENDERER)

3) Business name and constitution:
of tendering form
(is the firm registered under)

i) The Indian Partnership Act, 1932 :
ii) The Indian Companies Act, 1956 :
iii) Any act, if not, who are owners:
(Please give full names)

4) Do you agree to the Arbitration Clause stipulated (Your acceptance or non-acceptance of this Clause will not influence the decision of the tender. It should, however be noted that as omission to answer the above question will be deemed as an acceptance of the Clause).

(FOR PARTNERSHIP FIRMS WHETHER REGISTERED OR NOT REGISTERED UNDER INDIAN PARTNERSHIP ACT, 1932)

Should the answer to this question by a partnership firm be in the affirmative, please state further:

a) Whether by the partnership agreement, authority to refer disputes concerning the business of the partnership to arbitration has been conferred on the partner who has signed the tender.
b) If the answer to (a) is in the negative whether there is any general power of attorney execute by all the partners tender to refer dispute concerning business of the partnership to arbitration:
c) If the answer to either (a) or (b) is in the affirmative, have you already furnished a copy either the partnership agreement or the general power of attorney as the case may be, to this Institute. Please quote the references to the communication by which this was done.

NB.1) If a copy of neither the partnership agreement for general power of attorney has previously been furnished to this Institute please attach to the tender a copy of either documents on which reliance is placed for authority of partners of the partner signing the tender to refer disputes to arbitration. The copy should be admitted by Notary public to or its execution should be admitted by affidavit on a properly stamped paper by all the partners.

(SIGNATURE OF TENDERER)

2) Where authority to refer disputes to arbitration has not been given to the partners signing the tender, the tender must be signed by every partner of the firm.

5) **INDICATE FOLLOWING DETAILS :**

I) What is your installed capacity

ii) What is your working capacity

iii) What is the existing load

iv) What portion of your capacity you prepared to reserve and allocate to this Rate contract

6) Whether Earnest Money has been deposited:

Enclosures:

Annexure – I
Annexure – II
Annexure – III

(SIGNATURE OF TENDERER)

ANNEXURE (I) (ENCLOSURE TO TENDER FORM)

(To be returned by Tenderers along with Tender duly signed)

1. CONDITIONS OF CONTRACT:

Printed or cyclostyled or such terms and conditions of the tendering firms not appearing in the body of the tender will not be considered as forming part of their tender. Tendering firms should quote on the basis of the conditions referred to in para 1 of the invitation of tender and instructions to tenderers. In case any terms and conditions of contract applicable to this invitation to tender are not acceptable to the tendering firms, they should specifically state deviation there from in the body of their tender.

2. DEVIATION FROM SPECIFICATION:

It is in the interest of the tenderers to study the specifications, specified in the tender schedule thoroughly before quoting so that if any deviations are made by the Tenderers the same are prominently brought out in the body of their tender.

3. PRICES:

a) Prices must be in terms of new coinage system, viz., rupees and paisa.

b) The unit prices should be for the work in question indicated in the schedule to tender enquiry and not any other supply.

c) Prices quoted should be invariably for undertaking work place mentioned in Annexure – III.

d) Discount if any, should be indicated promptly.

4. TRANSIT INSURANCE:

The Client will not pay separately for transit insurance and the contract will be responsible till the entire supply is made.

5. PRICE PREFERENCE FOR EARLIER DELIVERY:

It should be noted that if a contract is placed on the tenderer as a result of this invitation to tender in preference to the lowest acceptable offer in consideration of offer of earlier supplies, the contractor will be liable to the Council the difference between the contract rate and that of the lowest.

(SIGNATURE OF TENDERER)

ACCEPTABLE TENDER, on the basis of duties and other incidentals in case of failure to completion of supply in terms of such contract within the date of completion specified in the tender and incorporated in the contract.

This is in addition to and without prejudice to other rights under the terms of the contract.

6. PAYMENT TERMS:

Part payment is allowed in cases where work award exceeds Rs. 5 lakhs only. One part payment, equivalent to 80% of completed work as certified by CRIDA, will be made, upon request of tenderer. This request is voluntary and it timing is at discretion of tenderer. Second and final payment will be made after completion of total work. IT and SD shall be deducted at source.

7. ADDITIONAL PARTICULARS TO BE FURNISHED BY THE TENDERER:

Tenderers shall submit alongwith their tenders:

i) An Income Tax clearance certificate (duly countersigned by the Income Tax Officer of the Circle concerned under the seal of his office)
ii) Name and full address of their Banker:
iii) Performance statement duly signed by them regarding work undertaken by them against contract for similar supplies for the part three years. In case the tenderer has not secured any contract during the past three years, he should give the performance against earlier contract placed on him, if any, samples of the supply work executed may please be enclosed to the tender.
iv) The assignment, they possess for executing the supply work liable to be ignored.

8. JURISDICTION:

All questions, disputes or differences under, out or or in connection with the contract, if concluded shall be referred to the sole arbitrator appointed by the Indian Council of Agricultural Research . The decision of the sole Arbitrator shall be final and binding on both the parties.

9. I/we have understood the instructions of Tenders and conditions of contract including in the General conditions of contract governing contracts placed by the Indian Council of Agricultural Research and Institute under it and in the special conditions of contract and have thoroughly examined the specification or pattern and nature of work quoted in the schedule hererto and an/are fully aware of the completion of the work and my/our offer is in accordance with the requirement.

10. Demand Draft No……dt……for Rs…….

(Rupees……) is enclosed being EMD.

(SIGNATURE OF TENDERER)

ANNEXURE –II (ENCLOSURES TO TENDER FORM)

(Please quote rates on Annexure III (Schedule to Tender Form)

Full name & address of the
Tenderer in addition to
Post Box No. if any, should
be quoted in all communications
to this office

Tenderers Telegraphic
Address:

Telephone /Mobile No.
Code used :

From

To
The Director

Central Research Institute for
Dryland Agriculture
P.O.Saidabad
Santoshnagar
Hyderabad – 59.

Dear Sir,

I/We hereby offer for supply of stores as per the details furnished in the tender schedule (Annexure-III) hereto or such portion thereof as you may specify in the Acceptance of Tenderer at the price given in the said schedule and agree to hold this offer ninety days only. I/We shall be bound by a communication of Acceptance dispatched within the prescribed time and also execute agreement required in this regard.

(SIGNATURE OF TENDERER)

2. I/We have understood the instructions to Tenderers and conditions of contract included in the General conditions of contracts governing contracts placed by the CRIDA, Indian Council of Agricultural Research Institutes under it and in the special conditions of contract and have thoroughly examined the specification or pattern and nature of stores quoted in the schedule thereto and an/are fully aware of the completion of the supply and my/or offer is to in accordance with the requirement.

3. The following pages have been added to and from part.

SIGNATURE OF WITNESS: (SIGNATURE OF TENDERER)

Name of Witness : Name of Tenderer :

Mailing Address : Mailing Address :

DATE: (SIGNATURE OF TENDERER)

CENTRAL RESEARCH INSTITUTE FOR DRYLAND AGRICULTURE

SANTHOSHNAGAR, HYDERABAD – 500 059

ANNEXURE – III

Name of the work	: C/o of FATE & CTGC Control room
Place of work	: CRIDA, HRF, R.R.District
Estimated value of the work	: 8.9 Lakhs
Time for completion of work	: 90 days from the date of award of work
Amount of EMD	: 18,000/-
In whose favour the DD's to be Drawn (Tender form & EMD)	: **"ICAR Unit A/c., CRIDA, Hyderabad"**
Date of publication of tender notification	: 11-10-2011
Names of Newspaper	: Andhra jyothi (Telugu), Siasat(Urdu), Deccan Chronicle(English)
Rate of Tender form	: Rs.200-00
Date of sale of Tender form	: 13-10-2011 to 21-10-2011
Date & Time of submission of Tenders	: 22-10-2011 upto 1500 hrs
Date & Time of opening of Tenders	: 22-10-2011 at 1530 hrs

NOTE

ELIGIBILITY CRITERIA OF THE BIDDER FOR AWARDING OF THE CONTRACTOR: (A) Registered contractors of CPWD, State PWD/PSUs/ Reputed private organizations, (B) In possession of valid IT/PAN, ST/VAT, ESI and PF registration certificates, (C) Should be in possession performance / experience Certificate issued by the competent authority as having satisfactorily carried out at least one work of similar nature and magnitude of value not less than Rupees Five lacs during last three years, (D) In possession of valid A or B grade electrical contractors licence, for executing electrical portion of the contract work. In case the Bidder is not in possession of Electrical contractors licence, CRIDA allows for subcontracting of this work, provided that the subcontractor satisfactory fulfills all the above criteria.

(SIGNATURE OF TENDERER)

Annexure - III

Quotation for Construction of Control and monitoring room cum field lab for FATE, CO_2 & CTGC systems at HRF, CRIDA (Size 10.5x5.50m)

PART – I (CIVIL)

S.no.	Particulars	Unit	Qty	Rate	Amount
1.0 (2.8.1)	Earth work excavation by mechanical/manual means is foundation trenches or trains including dressing of sides & ramming of bottoms, including getting out excavated soil & disposal of surplus excavated soil as directed with is a lead of 100 mm 2 x8.00 x 0.60 x 0.75 = 7.20 2 x4.20 x 0.60 x 0.75 = 3.78 6 x1.20 x 1.20 x 1.50 = 12.96 2x12.00 x 0.60 x 0.40 = 5.76 2x5.80 x 0.60 x 0.40 = 2.78 1x10.0 x 0.30 x 0.60 = 1.80 34.28 m^3	cu.m	34.28		
2.0 (4.1.11)	Providing & laying in position Cement Concrete of specified grade excluding the cost of centering & shuttering with 1:5:10 (1cement,5coarse sand, 10 graded stone aggregate of 40 mm nominal size) 2 x8.0 x 0.60 x 0.10 = 0.96 2 x4.20 x 0.60 x 0.10 = 0.50 1 x10.00x5.00 x 0.20 = 10.00 6 x 1.20x1.20 x 0.20 = 1.72 2 x 11.50x0.60x0.30 = 4.14 2 x 5.50 x 0.60x0.30 = 1.98 19.30 m^3	cu.m	19.30		
3.0 (5.3)	Reinforced cement concrete work in beams, suspended floors roofs having slope up to 15^0 holdings balconies, shelves, chajjas, stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:2:4 (1cement, 2 coarse sand, 4 graded stone aggregate of 20 mm nominal size) 6x1.20x1.20x0.60 = 5.18 6x0.30x0.25x4.60 = 2.07 1x10.50x6.70x0.125 = 8.79 4x10.50x0.30x0.25 = 3.15 2x5.50x0.30x6.25 = 0.82 3x7.40x0.30x0.25 = 1.62 2x11.50x0.60x0.10 = 1.38 2x5.50x0.60x0.10 = 0.66 23.67m^3	cu.m	23.67		

4.0 (5.9.2/3)	Centering & shuttering including strutting propping etc. and removal of form for suspended floors, roofs, landings balconies & access plat form	sq.m	280.0		
5.0 (5.22)	Reinforcement for R.C.C work, & pre cost slabs, including straightening cutting, bending placing in position & binding all complete cold twisted bars (including centering)	kg	1980.0		
6.0 (7.1) 6.1 (7.1.1)	Random rubble masonry with hard stone in foundation & plinth including leveling up with Cement Concrete 1:4:8 (1Cement, 4 Courses and, 8 graded stone aggregate of 20 mm nominal size) at plinth level, with 1:6 Cement motor 2 x10.80x 0.40x1.00 = 8.64 2 x5.00 x0.40 x1.00 = 4.00 12.64 m^3	cu.m	12.64		
7.0	Filling of basement with fine murram, watering and consolidation 10.00x5.0x0.60x = 30.0 cu. m	cu.m	30.00		
8.0 (6.1) 8.1 (6.1.2) 8.2 (6.12.2)	9" Brick work with F.P.S bricks of class designation 75 m foundation & plinth in Cement mortar 1:6 2x10.50x 0.23x 3.10 = 14.97 2x4.00x0.23x3.10 = 7.13 22.10 m^3 Deduction: 2x2.1x1.4x.23= 1.35 5x1.8x1.2x.23= 2.48 3.83 cu.m Net Qty. 22.10-3.83=18.27 cu.m Half brick masonry with F.P.S bricks of Glass designation 75 in foundation & plinth in cement mortar 1:4 (1 cement, 4 sand) 2x10.50x0.60 = 12.60 m^2 2x5.50 x 0.60 = 6.60 m^2 10x0.70x0.75 = 5.63 m^2 24.83m^2	cu.m sq.m	18.27 24.83		
9.0 (5.12)	Providing, hoisting & fixing up to floor five level pre cost R.C.C work in lintels, chajjas, shelves plain window sills and including cost of required centering shuttering, finishing smooth with 6 mm thick cement ploster 1:3 (1 cement, 3 sand) on exposed surface complete with reinforcement with 1:2:4 (1 cement , 2 coarse sand, 4 graded stone aggregate of 20 mm nominal size 8 x 1.50 x 0.25 x 0.20 = 0.60 8 x 1.8 x 0.75 x 0.10 = 1.08 1.68 m^3	cu.m	1.68		

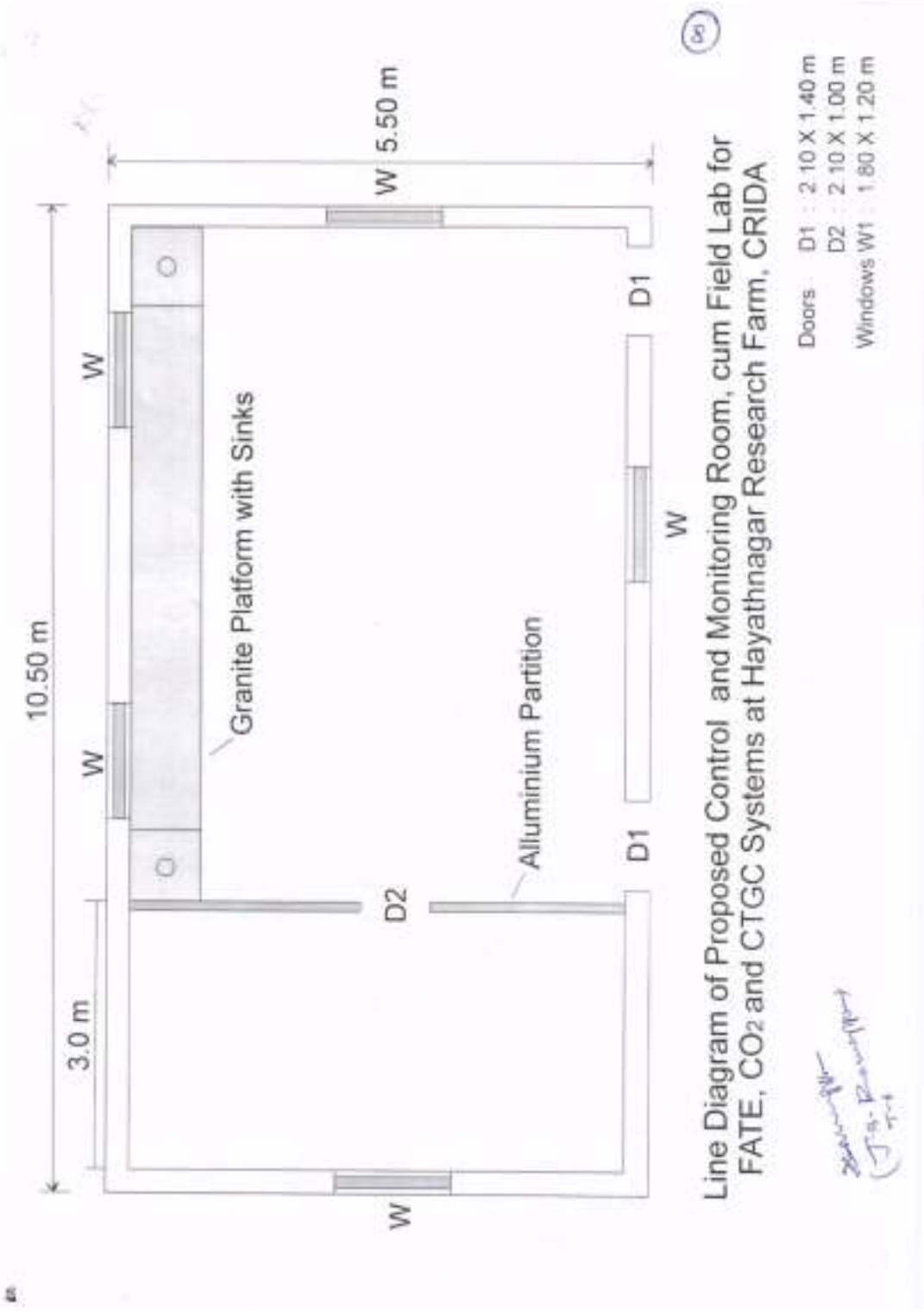
10.0 (13.12)	18 mm Cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1cement, 5 coarse sand) finished with top layer 6 mm thick cement plaster 1:3 2x10.50x3.80 = 79.80 2x10.0x3.10 = 62.00 2x5.00x3.10 = 31.00 2x5.50x3.80 = 41.80 1x10.0x5.0 = 50.00 2x2x10.50x0.70 = 29.40 2x2x5.50x.70 = 15.40 309.40sq,m Deduction: 2x2.10x1.40 =5.88 5x1.80x1.20 =10.80 16.88sq.m Net Qty. 309.40-16.88 = 292.72 sq.m	sq.m	292.72		
11.0 (13.33.2)	Raised & cut pointing for exposed face of R.R. masonry with cement mortar 1:3 (1cement, 3 fine sand) 2x10.50x0.50 = 10.50 2x5.50x0.50 = 5.50 16.00 sq.m	sq.m	16.00		
12.0 (11.41.2)	Providing & laying vitrified glazed floor tiles 600x600 mm of first quality (Johnson / kajaria make) confirming to IS : 1562 of approved make in required colour & shade to be laid on 25 mm cement mortar 1:8 (1cement, 6sand) including pointing the joints with white cement & matching pigments, complete 1x10.30x5.30 = 54.59 m^2	sq.m	54.59		
13.0 (21.1)	Providing aluminum work for doors, windows, ventilators and portions with extruded built up standard tubular sections/appropriate z sections & other sections of approved make conforming to IS: 7338 IS:1285 fixed with rawl plugs and screws or with expansion hold fasteners including necessary filling up of gaps at Junctions at top bottom & sides with required pvc/neoprene felt etc., Aluminum sections shall be smooth, rust free, straight, mitered & jointed mechanically wherever required including cleat angle, Aluminum snap beating for glazing/ paneling, C.P. brass / stainless steel screws all complete as per requirements of site engineer.				
13.1 (21.2.1)	For fixed portion: 1x5.0x3.10	kg	52.00		
13.2 (21.1.2)	Door : 1x2.10x1.0	kg	10.0		
13.3 (21.1.2)	Windows frame of approved design & sliding shutter with locking facility (cost of glazing to be paid separately) 5x1.80x1.20	kg	140.00		

14.0 (21.2)	Providing & fixing 12 mm Thick pre laminated particle board flat pressed three layer or graded wood particle board confirming to IS: 12823 grade 1 Type-II in paneling fixed in aluminum doors and partition frames with C.P. brass / stainless steel screws etc., complete as per architectural drawings and directions of site in charge.				
14.1 (21.2.1)	Prelaminated particle board with decorative lamination on side and balancing lamination on other side 1x5.0x1.0 = 5.0 sq.m	sq.m	5.0		
15.0 (21.3)	Providing & fixing glazing in aluminum door, window, ventilator shutter & partitions etc., with PVC/neoprene gasket etc., complete as per directions of site engineer.				
15.1 (21.3.2)	With float glass panes of 5.5 mm thickness 1x5.0x2.00 = 10.00 sq.m 6x1.80x1.20 = 12.96 sq.m 22.96 sq.m	sq.m	22.96		
16.0 (21.4)	Providing & fixing double action hydraulic door spring of approved brand & manufacture IS: 6315 marked, for doors including cost and cover plates with brass pivot and single piece M.S. Sheet out box with slide plate etc., as per directions of site engineer				
16.1	With stainless steel cover plate.	each	1no.		
17.0 (21.8)	Filling the gap in between aluminum frame & adjustment wall/ceiling by providing weather silicon sealant over backer rod of approved quality as per direction of site engineer.				
17.1	Up to 10 mm depth & 10 mm width	metre	20.00		
18.0	Providing & fixing following anodized Aluminum hard ware of approved quality and make, as per requirement of site engineer				
18.1	AL Latches(heavy) 300mm	each	2nos.		
18.2 (0696)	AL Sliding door bolt (heavy) 300x16 mm	each	2nos.		
18.3 (0698)	A1. Tower bolt 300x10mm	each	6nos.		
18.4 (0703)	A1. Door handles 125 m with plate 175x32mm	each	8nos.		
18.5	Round shape Al. Door handles (Heavy)	each	2nos.		

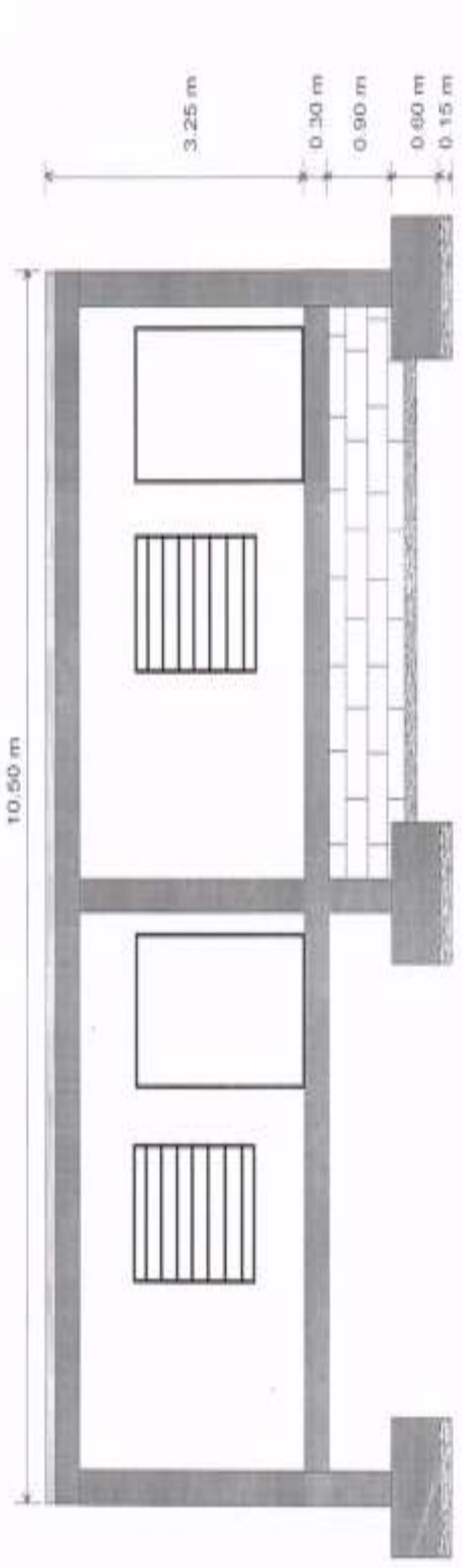
19.0 (10.13)	Providing & fixing T-iron frame for doors, windows and ventilators of mild steel Tee sections, Joints mitred and welded with 15x3mm longs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 or with dash fastener or with fixing clips or with bolt & nuts as required, including fixing of necessary butt wings and screws and applying a priming coat of approved steel primer Door : 2.10x1.40 – 2nos Window : 1.80x1.20 – 6 nos	kg	460.0		
20.0 (9.20) 20.1 (26.1)	Providing & fixing ISI marked flush door shutters (double door) with decorative lamination on one side balancing lamination on one side & balancing lamination on other side conforming to IS: 2202 with frame of first class hardwood & well matched lamination on other side, complete. 35 mm Thick including ISI marked stainless steel butt hinges with necessary screws 2x2.10x1.40 = 5.88 m^2	sq.m	5.88		
21.0 (8.2.2) 21.1 (8.2.2.2) 21.2 (8.3.2)	Providing and fixing 18mm thick mirror polished machine cut granite for platforms, Varity counters, windows sills of required size of approved shade, colour & texture laid over 25S mm thick base cement mortar 1:4 (1 cement, 4 coarse sand with joints treated with white cement, mixed with matching pigments, epoxy touchups, including rubbing, caning moulding & polishing to edge to give high gloss finish etc., compete at all levels. Granite of any colours & shade, area of slab over 1.0 sq.m 1x7.0x0.75 = 5.25 m^2 Extra for proving edge moulding to 18 mm thick granite stone including machine polishing o give high glass finish, complete as per directions of site engineer. Granite work	sq.m metre	5.25 11.80		
22.0 (17.11)	Providing and fixing white vitreous china laboratory sink of approved make with C.I. brackets, C.P. brasstrap with necessary C.P. brass unions complete including painting of fitting and brackets, cutting and making good the wall wherever required. 600x450x200 mm	each	2nos.		

23.0 19.4.1.1	Providing and fixing square – mouth S.W. gully trap 'A' complete with C.I grating bricks masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type with F.P.S. bricks of class designation 75	each	4 nos.		
24.0 (22.3) 24.1 24.2	Providing and laying water proofing treatment to roof surface 1st course of applying cement slurry @ 4.4 kg/sq.m mixed with water proofing compound confirming to is 2645 in recommended proportions IInd course of 25mm cement plaster 1:3 (1 cement 3 sand) mixed with water proofing compound recommended proportion and finisned with floating coat of neat cement 1x10.50x6.70 = 70.35sq.m	sq.m	70.35		
25.0 (13.41) 25.1 (13.41.1)	Distempering with oil bound washable distemper of approved manufacture and of required shade & colour complete New work two or more coats over Primary coat. 2x10.0x3.10 = 62.00 m^2 2x5.0x3.10 = 31.00 m^2 1x10.0x5.00 = 50.00 m^2 143.00 m^2	sq.m	143.00		
26.0 (13.16) 26.1 (13.46.1)	Finishing the walls with premium Acrylic smooth exterior paint required shade & make New work two or more coats over priming coat 2x10.50x3.10 = 65.10 2x5.50x3.10 = 34.10 99.20 m^2	sq.m	99.20		
27.0 (13.62) 27.1 (13.62.1)	Painting the door frames, windows and with synthetic enamel paint of approved brand and make of required colour to given even shade. New work. Two or more coats over primary coat. 2x0.5x2.10x1.40 = 2.94 6x1.5x1.80x1.20 = 19.44 22.38sq.m	sq.m	22.38		
Total of Part I Civil:					

(Signature of Tenderer):
Phone Number:



Line Diagram of Proposed Control and Monitoring Room, cum Field Lab for FATE, CO_2 and CTGC Systems at Hayathnagar Research Farm, CRIDA



Line Diagram showing Front Elevation of Proposed Control and Monitorig cum Field Lab for FATE, Co2 and CTGC Systems at Hayathnagar Research Farm, CRIDA

Annexure – III
Part – II (Electrical)

TENDER FOR PROVIDING ELECTRICAL WORKS (INTERNAL ELECTRIFICATION) TO FATE CTGC CONTROL ROOM AT R-5 WATERSHED AREA, HRF, CRIDA

NO	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE	AMOUNT
1	Point wiring in PVC conduit, with modular type switch for Light point/fan point exhaust fan point etc as per Specifications of Item no. 1.10.3	20	20		
2	Power plug wiring in PVC conduit (2X4 sq.mm) as per Specifications of Item no.1.12	Meter	70		
3	Power plug wiring in PVC conduit (4X4 sq.mm) as per Specifications of Item no.1.13	Meter	40		
4	Circuit/ sub-main wiring in PVC conduit with 2x4 sq.mm + 1x4 sq.mm earth wire as per Specifications of Item no.1.14.3	Meter	80		
5	Telephone wiring in existing conduit: Supplying and drawing 2 pair x 0.5 sq.mm as per Specifications of Item no.1.18.2	Meter	20		
6	TV / Internet wiring in existing conduit: Supplying and drawing RG-6 grade x 0.7 sq.mm or Ethernet Data cable for Internet as per Specifications of Item no.1.19	Meter	20		
7	Supplying and fixing 20 mm PVC conduits as per Specifications of Item no.1.21.1	Meter	20		
8	Supplying and fixing 25 mm PVC conduits as per Specifications of Item no.1.21.2	Meter	20		
9	Supplying and fixing 3 pin 5 amps ceiling rose as per Specifications of Item no.1.33	Each	16		
10	Proving and fixing MV Danger notice plate as per Specifications of Item no. 2.71	Each	1		
11	Providing Earthing with Copper Earth Plate as per Specifications of Item no.3.62	Set	2		
12	Supplying and using extra salt and charcoal for copper plate earth electrode per Specifications of Item no.3.7	Set	2		
13	Supplying and laying 8 SWG Copper wire as per Specifications of Item no.3.9	Meter	24		
14	Supplying and laying 25x5 mm Copper earth strip on surface or in recesses for main earth connections from earth electrode up to main power DB as per Specifications of Item no.3.17	Meter	12		
15	Installation, Testing and commissioning of Ceiling Fan as per Specifications of Item no. 1.44	Each	6		
16	Installation, Testing and commissioning of 450 mm exhaust Fan as per specifications of item no.1.52	Each	2		

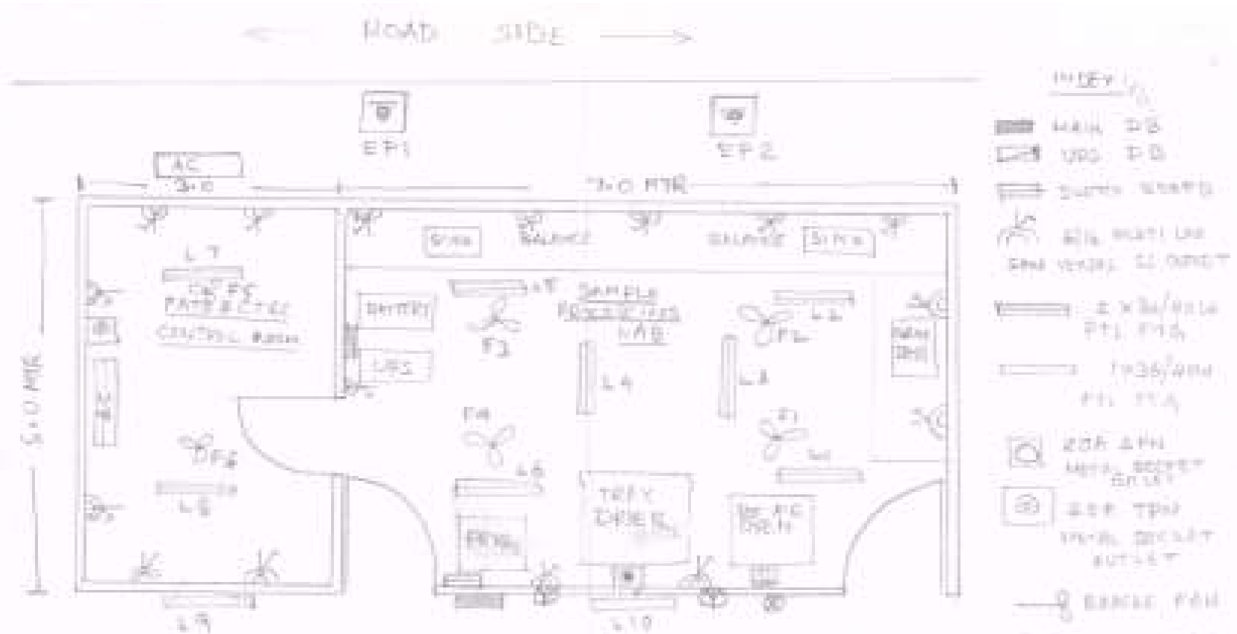
17	Extra for Fixing louvers/shutters as per Specifications of Item no.1.54	Each	2		
18	Installation, testing and Commissioning of 1 x36/40 watt Box type FTL Fitting on surface as per Specifications of Item no.1.41	Each	2		
19	Installation, testing and Commissioning of 2x36/40 watt Industrial Box type and Dust and vermin proof light fitting with down rods as per Specifications of Item no.1.42	Each	8		
20	Supplying and fixing extra down rod as per Specifications of Item no.1.43	Each	8		
21	Supplying , fixing, wiring and testing of Legrand make DPX Model 125 amps 16 KA, 4 pole MCCB for incomer as per Cat No.625329, in Vertical TPN MCB DB and as per Specifications of Item no. 2.22.3. Other approved makes: L&T/ Havells	Each	1		
22	Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model and IP 43 / IK 09 Vertical type SP/TP 12 way double door pre-wired MCB DB with metal door and with provision for fixing 125 amps 4 pole MCCB as incomer as per Cat No.607792 and as per Specifications of Item no.2.43.8. Other approved makes: Havells/Hager	Each	1		
23	Supplying and fixing of Legrand make Lexic type 10 ka C curve SP MCBs of 6 amps to 32 amps 240 volts in the above MCB DB as per Specifications of Item no.2.51.1. Other approved makes:Havells/Hager	Each	18		
24	Supplying and fixing of Legrand make Lexic type 10 ka C curve TP MCBs of 6 amps to 32 amps 240 volts in the above MCB DB5 amps to 32 amps 240 volts ‘C’ series TP MCBs as per Specifications of Item no. 2.51.3. Other approved makes: Havells / hager	Each	3		
25	Supply and fixing of SP MCB Blanking plates as per Specifications of Item no. 2.53	Each	20		
26	Supplying and fixing 20 amps SPN MCB industrial socket outlet with 20 amps “C” series SP MCB as per Specifications of Item no.2.62Approved make: Legrand/Havells/Hager	Each	2		
27	Supplying and fixing 20 amps TPN MCB industrial socket outlet with 20 amps “C” series TP MCB as per Specifications of Item no.2.63Approved make: Legrand/Havells/Hager	Each	2		

28	Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model and IP 43 / IK 09 SP 12 way double door pre-wired MCB DB with metal door and with provision for fixing 63 amps 2 pole MCB Isolator as incomer as per Cat No.607712 and as per Specifications of Item no.2.43.8. Other approved makes: Havells/Hager	Each	1		
29	Supply & Fixing of Legrand make C Curve Lexic type 63 amps DP MCB Isolator as per cat no.604003.Other approved makes: Havells/Hager	Each	1		
30	Supply & Fixing of Legrand make Metal DP One way enclosure as per cat no.607882.Other approved makes: Havells/Hager	Each	1		
31	Supply, fixing, wiring & testing of Anchor roma make 6A/16A Twin type multi universal Switch - Socket Outlets comprises of following: (a) 1 no. 6 module sheet metal box as per cat no.21463, (b) 1 nos. 20 amps 1 way switch with neon as per cat no.21077, (c) 1 nos. 10 amps 1 way switch with neon as per cat no.34964,(d) 1 no. 10 & 20 amps twin socket as per cat no.308238, (e)1 no. 13/10/6 amps combi socket for all pins as per cat no.22070, (f) 1 no. 6 module mounting plate suitable for above	Each	14		
32	Supply, fixing, wiring & testing of Anchor roma make switch boxes for Lights Plus Ceiling Fan regulators, comprises of following: (a) 1 no. 16 module sheet metal box as per cat no.21736, (b) 1 nos. 20 amps 1 way switch with neon as per cat no.21077, (c) 6 nos. 10 amps 1 way switch with neon as per cat no.34964,(d) 1 no. 13/10/6 amps combi socket for all pins as per cat no.22070, (e) 4 no. Fan step regulator Dura EME as per cat no.21496, (f) 1 no. 16 module mounting plate suitable for above	Each	1		
33	Supply, fixing, wiring & testing of Anchor roma make switch boxes for Exhaust fans etc comprises of following: (a) 1 no. 6 module sheet metal box as per cat no.21463, (b) 1 nos. 10 amps multi socket for cell phone pin or 2 pin + 3 pin as per cat no.30373, (c) 4 nos. 10 amps 1 way switch with neon as per cat no.34964,(d) 1 no. 6 module mounting plate suitable for above	Each	1		

34	Supply, fixing, wiring & testing of Anchor roma make switch boxes for Lights Plus Ceiling Fan regulators, comprises of following: (a) 1 no. 12 module sheet metal box as per cat no.21485, (b) 1 nos. 20 amps 1 way switch with neon as per cat no.21077, (c) 5 nos. 10 amps 1 way switch with neon as per cat no.34964,(d) 1 no. 13/10/6 amps combi socket for all pins as per cat no.22070, (e) 2 no. Fan step regulator Dura EME as per cat no.21496, (f) 1 no. 12 module mounting plate suitable for above	Each	2		
35	Supply, fixing, wiring & testing of Anchor roma make Telephone socket outlet box comprising of 1 or 2 module sheet metal concealed box with suitable mounting plate, complete as required	Each	2		
36	Supply, fixing, wiring & testing of Anchor roma make Modem / Computor Jack box with shutter comprising of 1 or 2 module sheet metal concealed box with suitable mounting plate, complete as required	Each	2		
37	Supplying and fixing modular type blanking plates as per Specifications of Item no.1.26	Each	6		
38	Supply of 1200 mm Ceiling Fan with out regulator. Approved Makes: Orient/Usha/Crompton/Bajaj/Havell's	Each	6		
39	Supply of 450 mm Heavy duty 240 volts exhaust fan with louvers / shutters. Approved Makes: Crpmpton/Bajaj/Almonard/Havell's	Each	2		
40	Supply of 1x36/40 watt Industrial Box type FTL fitting with tubes. Approved makes:Philips/Crompton/Bajaj/Crompton/Wipro/ Fortune Art	Each	2		
41	Supply of 2x36/40 watt Industrial Box type and Dust and vermin proof FTL fitting with tubes. Approved makes:Philips/Crompton/Bajaj/Wipro/Fortune Art	Each	6		

42	Supply of 2x36/40 watt Commercial Mirror optics type FTL fitting with tubes. Approved makes:Philips/Crompton/Bajaj/Wipro/Fortune Art	Each	2		
43	Supply and fixing of CO2 type 4.5 kg Fire Extinguisher with initial charge and comprising of steel type cylinder, discharge hose & horn, mounting bracket etc as per IS:2878, complete as required.	Lumpsum Job	1		
44	Supply and fixing of DCP type 5 kg Fire Extinguisher with initial charge comprising of gun metal union, co2 gas catridge, & DC Powder, one meter length dischage hose with nozzle, suspension bracket etc complete as required as per IS:2171, complete as required.	Lumpsum Job	1		
45	Supply and fixing of 3 x 2 feet glass top in teak wood framed multi lingual (English/hindi/telugu) Electrical Shock treatment chart, as per relevant specification	Each	1		
46	Supply and fixing of medical First Aid box with all necessary medicines and accessories as per relevant specification.	Each	1		
47	**Total Part - II**				
	Total Part - I				
	Grand total:				

Signature of tenderer



PROPOSED EQUIPMENT LAYOUT OF CONTROL ROOM
FOR FATE & CTGC SYSTEMS AT HRF

PREPARED BY (P.V.C. SHEKHAR REDDY) CONSULTANT
(DR. M. VANAJA) Pr. SCIENTIST (Pl. Physiol.)

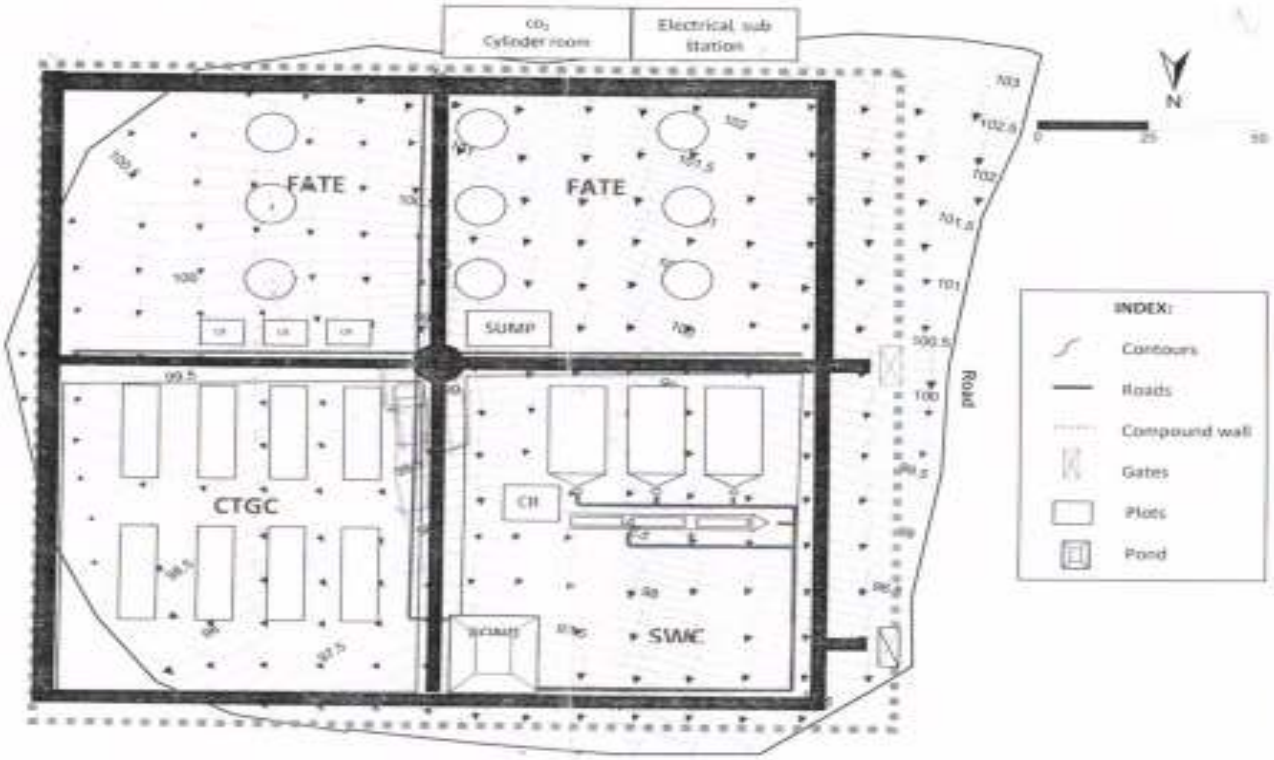


Fig. Experimental Lay out under NICRA at HRF