

GRAMS: DRYLAND

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**Central Research Institute for Dryland Agriculture
Santoshnagar, Said bad Post, Hyderabad – 500 059**

INVITATION TO TENDER AND INSTRUCTIONS TO TENDERERS

Tender Number: 4-7(94)/2011-2012/

Date:

Name of the Work: **Construction of Control Room for SCADA at Hayathnagar
Research Farm, CRIDA**

*Cost of Tender: Rs. 300-00

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

* DD for Rs. 300/- drawn in favour of “ **ICAR Unit Account CRIDA** may please be enclosed to tender in case of downloaded tender forms.

2/-

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 Annexure III 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)

3/-

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 or 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 or 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 warrant 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 hold 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 cover and the cover should be sealed and should bear address of this office with 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:** The tender must reach this office not later than hours and date mentioned in Annexure III. Tenders sent by hand delivery should be put in the Tender Box at this office within stipulated time.

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 for completion of work is indicated in the Annexure – III enclosed and should be completed within the stipulated period, failing which penalty will be imposed as specified in Annexure III. The time for completion of work indicated therein is tentative, 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)

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)

8/-

- 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)

11/-

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:

The terms of payment are indicated in Annexure III, the bills shall be submitted in triplicate on the basis of the measurement jointly recorded by the contractor and Chairman, Works Committee/his nominee. Payment shall be arranged within the 3-4 weeks time from the date of certification of satisfactory completion of the work. All tax deductions etc. shall be made 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 past 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 hereto 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.

Name of the Bank:

Name of the Branch:

(SIGNATURE OF TENDERER)

12/-

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 undertaking construction of works 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 agree to pay Performance Guarantee, Security Deposit and 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)

ANNEXURE – III

Name of the work	: Construction of Control room for SCADA
Place of work	: Hayathnagar Research Farm, CRIDA, R.R. District
Estimated value of the work	: 2.93 Lakhs
Time for completion of work	: 2 Weeks
Amount of EMD	: 5,800/-
In whose favour the DD's to be Drawn (Tender form & EMD)	: "ICAR Unit A/c., CRIDA, Hyderabad"
Date of publication of tender notification	: 15-03-2012
Names of Newspaper	: Andhra jyothi (Telugu), Siasat(Urdu), Deccan Chronicle(English)
Rate of Tender form	: Rs.300-00
Date of sale of Tender form	: 16-03-2012 to 22-03-2012, 1500 hrs
Date & Time of submission of Tenders	: 22-03-2012 upto 1500 hrs
Date & Time of opening of Tenders	: 22-03-2012 at 1530 hrs

(SIGNATURE OF THE TENDERER)

Contd..

GENERAL CONDITIONS OF CONTRACT FOR ELECTRICAL WORKS

- (1) **TERMS OF PAYMENT:** 100% of actual value of work done will be paid within one month from the date of actual completion of all works subjected to fulfilling the following conditions: (a) Submission of original delivery challan and original Invoice in triplicate, duly signed and confirmed by the engineer-in-charge about correctness of goods supplied and satisfactory performance of the works completed as per the specifications of the contract, (b) Submission of Inspection & Test certificates and details of field measurements duly signed and confirmed by the engineer-in-charge about 100% completion of all supplies and works in all respects and their satisfactory performance, inspection, test and acceptance. Hence, no part payment bills will be entertained.
- (2) **PERFORMANCE GUARANTEE:** The successful bidder, within one week of issue of work order, has to deposit an amount equal to 5% of total contract value in favor of CRIDA in the form of BG/FDR/DD valid for 15 months in the manner acceptable to CRIDA, towards performance guarantee of the works proposed to be carried out by the bidder. The said money will be released only after satisfactory completion of Guarantee period of 12 months to be reckoned from the certified date of completion and acceptance of the work as certified by the engineer-in –charge of the work.
- (3) **SECURITY DEPOSIT:** An amount equal to 5% of final completion value of work done will be recovered from the contractor's bill/dues towards security deposit which will be released only after satisfactory completion of Guarantee period of 12 months to be reckoned from the certified date of completion and acceptance of the work as certified by the engineer-in –charge of the work.
- (4) **CONDITIONS OF FORFEITING THE PERFORMANCE GUARANTEE & SECURITY DEPOSIT MONEY PAID BY THE CONTRACTOR:** If the contractor fails to undertake rectification any reported defects or malfunction of the equipments and materials supplied by him within reasonable time, then the Institute will have right to get the work done by any other agencies entirely at the cost and risk of the contractor and accordingly adjust the expenditure.
- (5) **PERMISSIBLE DEDUCTIONS FROM CONTRACTOR BILLS:** The following deductions will be made from the contractor's running / final bills: (a) Income tax and Sales tax / VAT / Work contract Tax deductions at the rate as applicable, (c) Penalties, if any imposed as per the terms of the Contract.
- (6) **DEFECTS LIABILITY PERIOD:** 12 months to be reckoned from the certified date of completion of all works / passing date of final bill. The 10% security deposit will only be released after satisfactory completion of defects liability period as certified by the engineer-in –charge of the work.
- (7) Onetime payment only after completion of all works.
- (8) **EXECUTION OF AGREEMENT:** The successful bidder is responsible to execute an Agreement with the Institute as per stipulated format within one week of issue of work order and the cost of stamp paper shall be borne by the contractor.
- (9) **ELIGIBILITY CRITERIA OF THE BIDDER FOR AWARDED OF THE CONTRACT:** (A) Registered and reputed Contractors of CPWD, State PWD/PSUs/Public limited companies, (b) In possession of valid IT/PAN, ST/VAT, ESI, PF and Labour Registration/Licence certificates, (c) Should be in possession of performance / experience Certificate issued by the competent authority as having satisfactorily carried out at least 3 work of similar nature and magnitude during last three years, in Govt departments only,(d) In possession of valid A grade electrical contractors licence.
- (10) **COMPLETION TIME:** Two weeks from the date of award of contract.

- (11) LIQUADATED DAMAGES / PENALTIES DUE TO DELAY IN COMPLETION OF WORK ON ACCOUNT OF REASONS FULLY ATTRIBUTABLE TO CONTRACTOR'S POOR PERFORMANCE:** At the rate of 2% per week subjected to maximum of 10% of total contract value.
- (12) TERMINATION / DETERMINATION OF CONTRACT:** (a) Termination for default: The Institute may, without prejudice to any other remedy or right for breach of contract, by written notice of default sent to the contractor, terminate the contract in whole or in part: (i) if the Contractor fails to deliver any or all of the goods or works within the time period specified in the contract or any extension thereof granted by the Institute pursuant to clauses mentioned here of: or (ii) if the contractor fails to perform any other obligation/s under the contract: and (iii) if the contractor, in either of the above circumstances, does not take appropriate remedial steps within a period of ten calendar days (or such longer period as the institute may authorize in writing) after receipt of notice of default from the Institute specifying the nature of default/s. And in the event the Institute terminates the contract in whole or in part, pursuant to above sub clause, the Institute may procure, up on such terms and in such manner as it deems fit and appropriate, goods and services similar to those undelivered or not performed and the contractor shall be liable to the institute for any excess costs for such similar goods or services. Notwithstanding the above, the contractor shall continue performance of the contract to the extent not terminated. (b) Termination for Insolvency: The Institute may at any time terminate the contract by giving written notice to the contractor, without compensation to the contractor, if the contractor becomes bankrupt or otherwise insolvent. Notwithstanding the above, such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Institute. (c) Termination for Convenience: (i) The Institute may, by written notice sent to the contractor, in whole or in part, terminate the contract at any time for its convenience. The notice of termination shall specify that termination is for the Institute's convenience, to the extent to which performance of the work under the contract is terminated, and the date up on which such termination becomes effective. (ii) The goods that are complete and ready for transportation within ten days after the contractor's receipt of notice of termination shall be purchased by the institute at the contract price and on other contract terms. For the remaining goods the institute may elect: Either to have any portion thereof completed and delivered at the contract prices and on other contract terms: and / or to cancel the remainder and pay to the contractor an agreed amount for partially completed goods or services and for materials and parts previously procured by the contractor for the purpose of the contract, together with a reasonable allowance for overhead expenses and profit.
- (13) WATCH & WARD:** Safe custody of all materials, equipment , working tools & plants etc that are brought in to the institute by the Contractor for the purpose of carrying out works shall be the responsibility of the Contractor and the Institute in way held responsible for loss or theft of the same.
- (14) ELECTRICAL POWER & WATER SUPPLY:** The Contractor is allowed to use Electricity and water supply, where ever available for the purpose of execution of the work and as per the conditions of the Institute.
- (15) STATUTORY COMPLIANCES:** Taking of all required Permits, Licences, and Registrations including Insurance under workmen compensation act etc as deemed fit and necessary under the law, keeping them valid and updated and ensuring strict compliance of the same shall be the responsibility of the Contractor alone.

- (16) PRICE VARIATION:** The quoted prices shall be firm and no escalation of prices on any account is permitted.
- (17) ACCEPTANCE OF CONDITIONAL OFFERS:** The Institute will not accept any conditional offers.
- (18) VALIDITY OF THE OFFERS:** Not less than 90 days. **ANY OTHER CONDITIONS / UNTOUCHED ISSUES:** As per CRIDA & ICAR in force.

It may please be noted that notwithstanding anything contained hereinabove the competent authority / Director-CRIDA reserves the right to relax or modify any of the terms & conditions mentioned above so as to select genuine , capable and efficiency Contractors / Firms offering competitive rates and in least possible time frame or cancel the tender without assigning any reason whatsoever.

(SIGNATURE OF THE TENDERER)

**QUOTATION FOR CONSTRUCTION OF CONTROL ROOM FOR SCADA/PLC AT
HAYATHNAGAR RESEARCH FARM, CRIDA**

Name of Work: Providing Electrification works to SCADA Control Room at / near R6 area, HRF.

Ref: Indent No.DRM/NICRA-SWCGC/2011, dated 4/1/2012, received from Dr. K.S. Reddy, Principal Scientist (SWCE), enclosed.

Following electrical works are required to be carried out for SCADA Control Room for providing necessary power supply arrangements to proposed SCADA, Rainfall Simulation Facility and other Data management systems at / near R-6 area at HRF.

Supply & fixing of Feeder Box, Power / Lighting DB, tube light fittings, ceiling fans, switch-sockets and providing wiring, copper plate type earth electrodes, fire extinguishers etc are some of the major works that are envisaged to be undertaken under the present estimate, as per the above cited indent. The detailed estimate is as here under.

The Estimate of all Scheduled items is prepared on the basis of CPWD's SOR 2007 and is inclusive of 25% additional towards cost index and all other items is as per prevailing market rate analysis, as per CPWD norms.

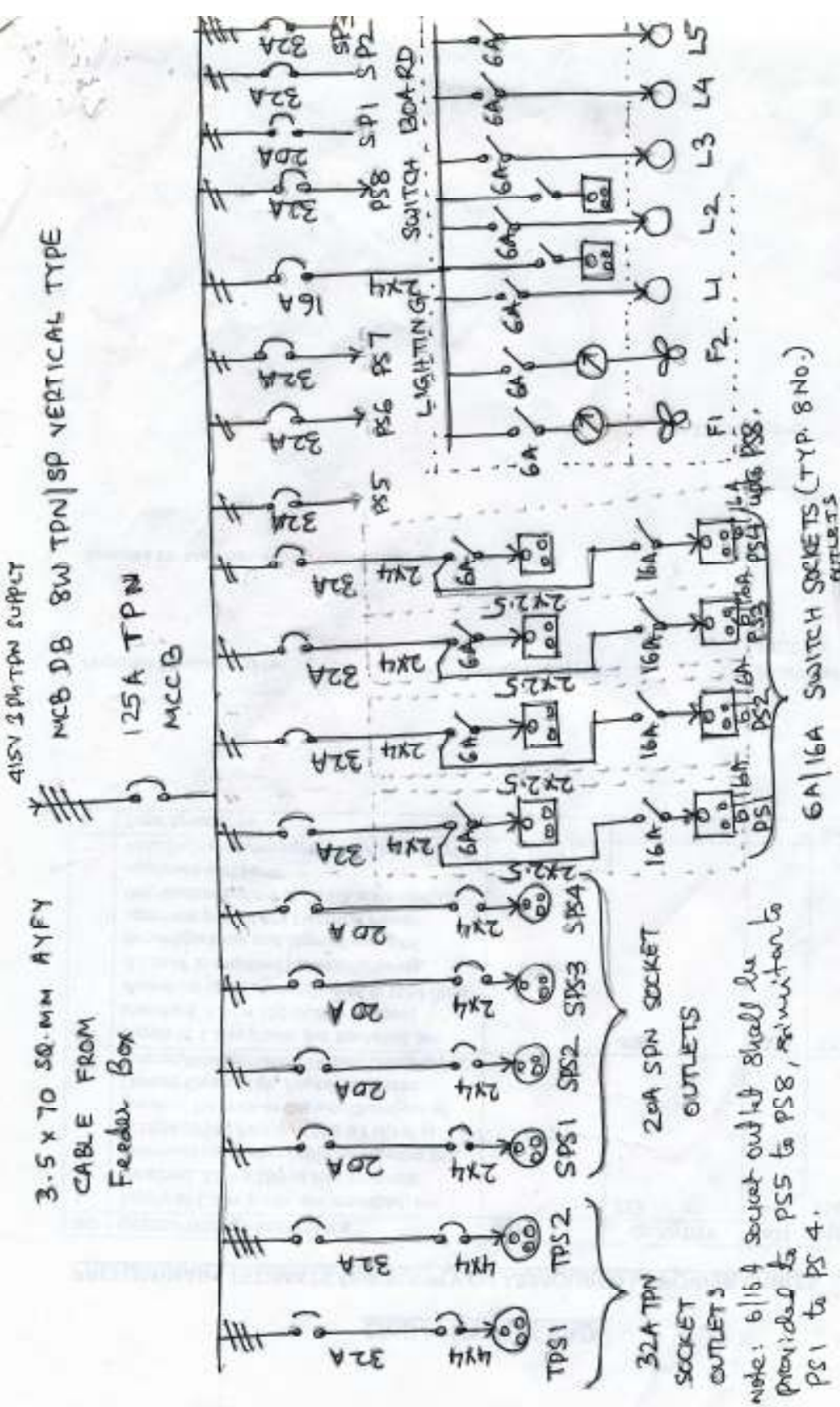
No	Description of Work	Unit	Qty.	Rate Rs	Amount Rs
1	Point wiring in PVC conduit in recesses or on surface, with modular type switch for Light point/fan point exhaust fan point etc as per Specifications of Item no. 1.10.3 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Point	7		
2	Power plug wiring in PVC conduit with 2X4 sq.mm Finolex make flexible copper wires and as per Specifications of Item no.1.12 of CPWD Schedule of Rates, Part-I (Internal) 2007, as required for MCB type SPN Industrial metal clad socket outlets.	Meter	24		
3	Power plug wiring in PVC conduit with 4X4 sq.mm Finolex make flexible copper wires and as per Specifications of Item no.1.13 of CPWD Schedule of Rates, Part-I (Internal) 2007, as required for MCB type TPN Industrial metal clad socket outlets.	Meter	12		
4	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 2x2.5 sq.mm + 1x2.5 sq.mm earth wire as per Specifications of Item no.1.14.2 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Meter	48		
5	Circuit/ sub-main wiring in PVC conduit with Finolex make flexible copper conductors of 2x4 sq.mm + 1x4 sq.mm earth wire as per Specifications of Item no.1.14.3 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Meter	54		

6	Supply, fixing, wiring & testing of Legrand make, Myrius type Power unit / Power strip comprising of 8 module flush mounting type metal box with mounting plate and frame fitted with 2 nos. 6 amps and 1 no. 16 amps sockets controlled by 1no. 16 amps switch with indicator as per cat no.673074, complete as required. Note: Equalent type in Anchor Roma make will be accepted as second preference only.	Each	8		
7	Supply, fixing, wiring & testing of Legrand make Myrius Type switch boxes for Lights Plus Ceiling Fan regulators etc(Lighting Switch Board), comprising of following: (a) 1 no. 18 module sheet metal flush box as per cat no.689012, (b) 9 nos. 6 amps 1 way switch with indicator as per cat no.673002,(c) 2 no. universal socket as per cat no.673044, (d) 2 no. Fan step type regulator as per cat no.673028, (e) 1 no. 18 module mounting plate with frame as per cat no.673218, (f) Necessary blanking plates, etc complete as required. Note: Equalent type in Anchor Roma make will also be accepted as alternative.	Each	1		
8	Supplying, fixing, wiring and testing of Legrand make Ekinoxe Model and IP 43 / IK 09 Vertical type SP/TP 8 way double door pre-wired MCB DB with metal door as per cat no.607791 including supply and fixing of 125 amps 4 pole 16 ka DPX type MCCB as incomer as per Cat No.625329 including supply and fixing of Lexic C curve 10 ka MCBs as per following and as per enclosed single line drawing, complete as required. Other approved makes: Havells/Hager. (a) 16 amps SP: 1 no. (b) 20 amps SP: 5 nos. (c) 32 amps SP: 9 nos. (d) 32 amps TP: 3 nos. (e) Blanking plates: complete as required	Each	1		
9	Supply, fixing, wiring and testing of Legrand make Ekinoxe type metra plug & socket 20 amps SPN MCB industrial socket outlet as per cat no.607841 with 20 amps “C” series 10 ka SP MCB as per enclosed single line drawing, complete as required. Other approved makes: Havells / Hager	Each	4		
10	Supply, fixing, wiring and testing of Legrand make Ekinoxe type metra plug & socket 32 amps TPN MCB industrial socket outlet as per cat no.607851 with 32 amps “C” series 10 ka TP MCB as per enclosed single line drawing, complete as required. Other approved makes: Havells / Hager	Each	2		

11	Supplying and fixing of Legrand / Anchor Roma make 3 pin 5 amps ceiling rose as per Specifications of Item no.1.33 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Each	7		
12	Providing Earthing pits with Copper Plate type electrodes as per Specifications of Item no.3.6 including construction of masonry chamber, testing of earth electrodes etc, complete as required.	Set	2		
13	Supplying and using extra salt and charcoal for copper plate earth electrode per Specifications of Item no.3.7 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Set	2		
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 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Meter	24		
15	Supplying and laying 8 SWG Copper wire as per Specifications of Item no.3.9 of CPWD Schedule of Rates, Part-I (Internal) 2007 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Meter	60		
16	Installation, Testing and Commissioning of Ceiling fan including supply and providing Fan hook in ceiling with all necessary materials, complete as required.	Each	2		
17	Installation, Testing and Commissioning of 2 x36/40 watt Box type FTL Fitting directly on surface as per Specifications of Item no.1.41 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Each	4		
18	Installation, Testing and Commissioning of 1 or 2 x36/40 watt Box type FTL Fitting with down rods or in recess in false ceiling as per Specifications of Item no.1.42 of CPWD Schedule of Rates, Part-I (Internal) 2007.	Each	1		
19	Supplying and fixing extra down rod as per Specifications of Item no.1.43	Each	4		
20	Supply of 1200 or 1400 mm sweep High speed Ceiling Fan without regulator. Approved Makes: Orient/Usha/Crompton/Bajaj/Havell's	Each	2		
21	Supply of 1x36/40 watt Industrial Box type FTL fitting with tubes. Approved makes: Philips/Crompton/Bajaj/Wipro/ Fortune Art	Each	1		
22	Supply of 2x36/40 watt Commercial Mirror Optics type FTL fitting with tubes. Approved makes: Philips/Crompton/Bajaj/Wipro/Fortune Art	Each	4		

23	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.	Each	1		
24	Supply and fixing of DCP type 5 kg Fire Extinguisher with initial charge comprising of gun metal union, co2 gas cartridge, & DC Powder, one meter length discharge hose with nozzle, suspension bracket etc complete as required as per IS:2171, complete as required.	Each	1		
25	Design, Manufacture, Supply, Installation, Testing & Commissioning of LT Feeder Box as required for joint use of SCADA & FATE/CTGC Control Rooms as per the enclosed single line drawing and technical specifications and instructions of engineer in charge, complete as required.	Each	1		
26	Supply of 3.5 core x 70 sq.mm 1.1 kv grade AYFY cable. Approved makes: Finolex / Polycab / Havells / CCI/Universal/Gloster/Nicco	Meter	60		
27	Laying of one number pvc insulated and pvc sheathed / xlpe power cable of 1.1 kv grade 4 of size exceeding 25 sq.mm but not exceeding 120 sq.mm direct in ground or through RCC / steel pipes including excavation and refilling the trench, etc as required, but excluding sand cushioning and protective covering as per Specifications of Item no.1.22 of CPWD Schedule of Rates, Part-II (external) 2007.	Meter	60		
28	Supplying and making end terminations of 3.5C x 70 sq.mm AYFY cable with Brass compression glands and Aluminum lugs as per Specifications of Item no.4.1.23 of CPWD's Schedule of Rates (Electrical) part-II External -2007	Each	4		
29	Providing and laying non-pressure NP-2 class(light duty) 150 mm dia RCC pipes with collars jointed with stiff mixture of cement mortar etc as per specification of CPWD DSR (Civil works) 2007, item no.19.6.2	Meter	12		
30	Total Amount Rs				
(Rupees only)					

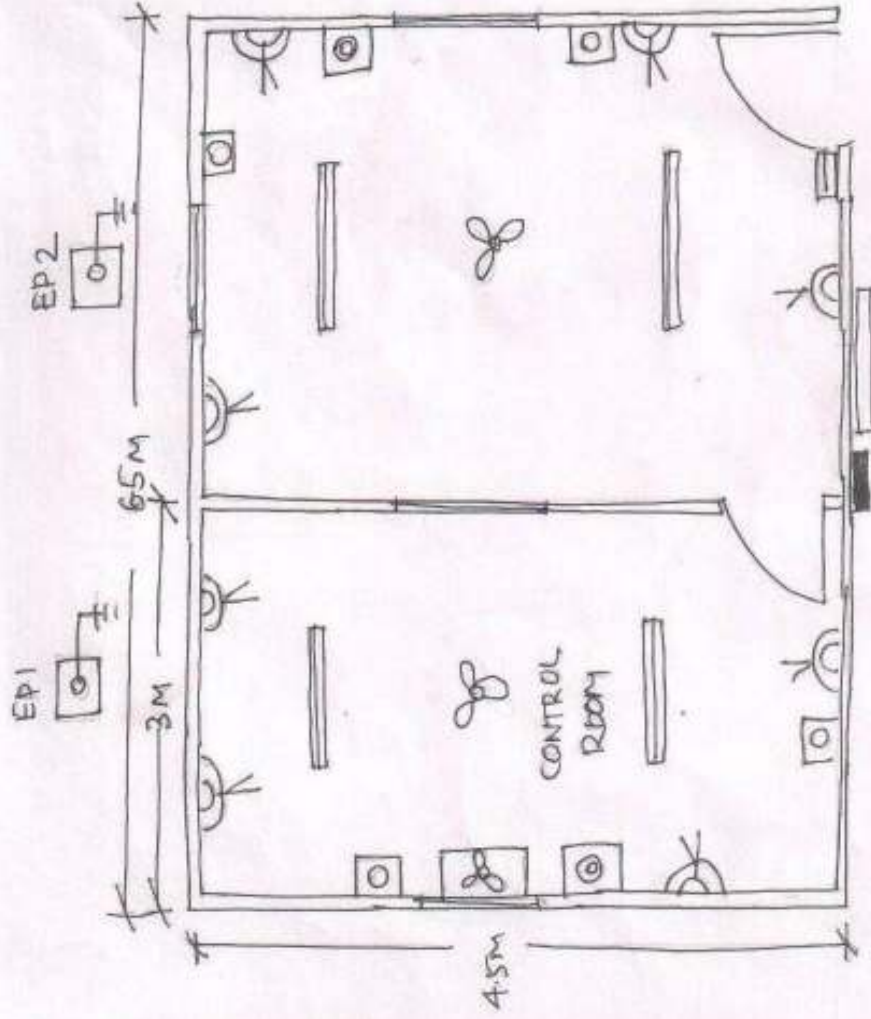
(SIGNATURE OF THE TENDERER)



Note: 6/16A socket outlet shall be provided to PS5 to PS8, minimum to PS1 to PS4.

Wiring Diagram for Internal Electrification of SCADA CR at R6, HRF.

(K.S. Reddy)



Proposed Electrical layout of SCADA
Control Room at RB, HRF.

(Signature)
(PVC Shekhar Reddy)
Consultant/Elect

(Signature)
(K.S. Reddy)
PS (SWCE)

INDEX:

■ Main DB -1

≡ Switch Board -1

⌋ 6/16A Multi Universal Twin
Switch - Socket Outlets - 8

□ 20A SPN MCB TYPE METAL
CLAD OUTLETS - 4

⊙ 32A TPN MCB TYPE METAL
CLAD OUTLETS - 2

⊗ Ceiling Fan 1400MM - 2

▬ 1x36w FTL Fittings-1

▬ 2x36w FTL Fitting-4

⊗ Fire Extinguishers - 2

⌋ Earth pits - 2 (Copper)

⌋ Split Type Air conditioner -
2 Ton - 1

**GENERAL TECHNICAL SPECIFICATIONS FOR LT FEEDER PILLAR BOX FOR CONTROL ROOMS OF
SCADA AND FATE/CTGC AT R6/HRF**

The Feeder Pillar Box shall be designed, manufactured, factory inspected and tested, dispatching to CRIDA's work site premises, unloading, leading, erection, installation, testing & commissioning of cubicle double door, single and double front, compartmentalized, outdoor, dust and vermin-proof type MV Power Distribution Panels suitable for operation on 415 volts, TPN + E, 50 Hzs, AC supply system capable of withstanding 35 ka rms for 1 second. The spacing between phases and Phase & Neutral/Earth shall not be less than 50 mm and 30 mm, respectively. All the Feeder Boxes shall comply with IP-54 or better standards in accordance with IS-2147 for ensuring protection against dust and water. Copper flexible wires used for internal control and metering wiring shall be 1.5 or 2.5 sq.mm. Proper and sufficient arrangements shall be provided for ensuring accidental shock to working persons by means of appropriately insulating the bare parts and also providing suitable phase barriers. The cable termination and entry / exit of cables from bottom only. The Panel Box shall be fabricated with 10/14 SWG CRCA Steel Sheets of 10 swg for Base frame and Gland Plates and 14 swg for entire remaining portion of the Panel and painted (stoving enamel or powder coating) to shade No. 631 as per IS-5, after undertaking rigorous 7 tank metal treatment & finishing processes (solvent / alkaline degreasing, de-rusting, acid pickling, phosphating, passivation etc in automatic temperature controlled hot processing tanks and baking / curing in the automatic temp controlled ovens for ensuring adequate protection against scratch and corrosion etc. The removable type gland plates shall have sufficient no. of knock outs suiting to the sizes of cables as indicated in the SLD. Suitable provision ventilation shall be provided by means of ventilating cowls or louvers fitted with steel wire mesh for preventing entry of rodents, insects etc. and also for limiting the temperature rise inside the panel. All the Feeder Boxes shall have suitable locking and Pad locking arrangements and the Bidder shall supply 2 nos. of Panel keys for each Feeder Box. The vertical dimension/ height of the feeder box shall be fixed such that the height of the operating knobs / handles of switchgear shall not be less than 600 mm and shall not be more than 1800 mm from the finished floor level. Steel electrical danger notice boards /sheets of not less than 250 x 200 mm multi lingual type shall be fixed to front and back side of each feeder box. There shall be suitable provision for conspicuously fixing the laminated Single Line Drawing on the inside of front door of each Feeder Box. The Feeder Boxes shall be manufactured as per the respective single line drawings, technical specifications, Bill of Materials and approved makes and instructions of engineer in charge. The Contractor shall submit General Arrangement Drawing and detailed Bill of materials along with the offer. All the Clamps, Fixture and Hardware etc shall be Hot Dip Galvanized/Nickel plated. All the main busbars including connecting Links shall be of Electrolytic Grade Solid Aluminum Flats confirming to E91 WP Grade as per IS-5082 and the individual sizes shall be computed as per Current Density of 0.8 amps per Sq.MM. The Feeder Boxes shall generally confirm to IS-8623-1993. The Bidders shall procure these Feeder Boxes only from the Govt Registered and reputed OEMs and the credentials of the OEM from whom the Bidder wishes to procure these feeder Boxes shall be submitted along with the offer.

The Feeder Box shall be rigidly mounted and fixed on to a stand of 500mm height fabricated with ISMC 75x40 mm. The Stand shall be rigidly grouted with Two no. PCC Pedestals of size (LXWxD) 750x300x600mm and 2 nos. Foundation Rag Bolts of 16 mm dia shall be suitably provided in each pedestal as required for rigidly fixing and bolting the Feeder Box to the Stand. As the space available for operation of this Feeder Box is suitable for working from front and back, the Feeder Box shall be made dual front, with doors in front and back.. The suggested GA Drg and Single line drg is enclosed. The Feeder Box shall be offered for pre-inspection and testing at Mfr's works before dispatch. The Feeder Box shall be fitted with the following:

- (a) 1 no. 400 amps 36 KA FP MCCB for Incomer,
- (b) 2 nos. of 125 amps 16 KA FP MCCBs for outgoing Feeders,
- (c) 1 nos. of 250 amps 36 KA FP MCCB for outgoing Feeder,
- (d) 1 no. 32 amps TPN Metal clad Socket outlet controlled by 32 amps TPN / FP MCB,
- (e) 1 no. 20 amps SPN Metal clad Socket outlet controlled by 32 amps SPN / DP MCB,
- (f) 1 no. 63 amps TPN/FP MCB,
- (g) 1 no. 16 amps TPN/FP MCB,
- (h) 1 no. 32 amps SPN/DP MCB,
- (i) 1 no. 16 amps SPN/DP MCB
- (j) 1 no. 440 volts, 32 amps TPN metal clad Plug & Socket wit Red cap controlled by 1 no. 32 amps 4 pole MCB,
- (k) 1 no. 240 volts, 20 amps SPN metal clad Plug & Socket with Red cap controlled by 1 no. 20 amps DP MCB,
- (l) 1 set of 500 amps TPN Al. bus bar fitted with HS type colored sleeves,
- (m) Removable type gland plates for termination of entry & exit cables and other accessories, Standard metering set for incomer (outgoing side) comprising of 1 no. 96 sq.mm 0-500 volts, Flush type Voltmeter with 3 pole, 6 amps RY-YB-BR-OFF Selector Switch, 3 nos. x 20 amps Control Fuse Fittings with 2 amps HRC type fuse links, 3 nos. R-Y-B Panel Indicators (LED type), 1 no. 96 sq.mm, 0-400 amps CT Operated Ammeter with 3 nos. current transformers of 400/5 amps ratio, 15 VA burden.
- (n) A GI Earth Flat of not less than 50x6 mm with holes of 8 mm dia drilled at suitable intervals fitted with steel fasteners shall be provided in the bottom of the panel box for continuous earth Bus.

APPLICABLE TECHNICAL SPECIFICATIONS FOR ELECTRICAL WORKS

All the applicable electrical works shall be carried out in accordance with the relevant provisions of CPWD's General Specifications for Electrical Works, Part – I (Internal) 2005 and Part – II (External)- 1994, as revised and amended from time to time.

LIST OF APPROVED MAKES OF SWITCHGEAR, CABLES & OTHER ACCESSORIES

No	NAME OF ITEM	MAKE /TYPE/SPECIFICATION OF DESIRED FIRST PREFERENCE MAKE	OTHER EQVALENT ALTERNATIVE MAKES
1	MCCB, 3 pole, 400 amps, 36 KA	L&T Type DN3-400D with Thermal Release Setting of 320-400 amps.	Schneider/GE/Siemens/ABB
2	MCCB, 3 pole, 250 amps, 35 KA	L&T Type DN2-250D with Thermal Release Setting of 200-250 amps.	Schneider/GE/Siemens/ABB
3	MCCB, 3 pole, 125 amps, 16 KA	L&T Type DU125 with Thermal Release Setting of 100-125 amps.	Legrand/Schneider/GE/Siemens/ABB
4	MCB DB	Legrand Type Ekinox	Hager/Havells
5	MCCB for above MCB DB	Legrand Type DPX 125 amps, 3 pole, 16 KA	L&T/Schneider/GE/Siemens/ABB
6	MCBs & MCB Isolators	Legrand Type Lexic 10 KA	Hager/Havells
7	SPN type Metal clad MCB Plug & Sockets	Legrand Type Metra 240V, 20 A, 2P + E	BCH/Hager/Havells/Standard
8	TPN type Metal clad MCB Plug & Sockets	Legrand Type Metra 440V, 32 A, 3P + E	BCH/Hager/Havells/Standard
9	Under Ground Cables 1.1 KV Grade, PVC Insulated and PVC Sheathed Armored Aluminum Conductors	Finolex or Polycab	Havells/CCI/Universal/Gloster/Nicco
10	Flexible Copper Conductor Cables & Wires for Internal panel Control Wiring	Finolex or Polycab	Q-Flex/Empire/Payal
11	Voltmeters 96 sq.mm, Flush type, 0-500 Volts	AE/Meco/Rishabh/IMP	AE/Meco/Rishabh/IMP
12	Ammeters 96 sq.mm, Flush type CT Operated	AE/Meco/Rishabh/IMP	AE/Meco/Rishabh/IMP
13	Voltmeter Selector Switches, 3 pole, 6 amps, RY- YB- BR- OFF	Kaycee/Salzer/Tecnic	VKS
14	Ammeter Selector Switch, 3 pole, 6 amps, R-Y-B-OFF	Kaycee/Salzer/Tecnic	VKS
15	CTs, Tape wound or cast resin type, -/5 amps Ratio, 15 VA Burden	Kappa/AE/IMP/Rishabh	Altran/kalpa

16	Indicating lamps 22.5 mm dia, LED type of R,Y,B colors	ESBEE/Teknic/Raas Controls	Siemens/L&T/Vaishnov/V eeco
17	Control Fuse Fitting & Links, Molded type, 20 amps with HRC fuse links of 2 amps	GE/L&T	Standard/Havells
18	Busbar Insulators SMC/DMC/Epoxy type	Powewrmat	IML
19	HS Sleeves, R,Y,Blue,Black,Green	Garware	Garware
20	Aluminum Busbars Electrolytic E91 WP Grade as per IS-5082	Indalco/Balco	
21	Cable Glands Double Compression Brass Type	HMI/BBI/VBI	
22	Cable Lugs Aluminum Crimping type	Dowells/Jainson	3D/Multi
23	Terminal Blocks Moulded type	IEC/Essen	Veeco/Balson
24	CR Streel sheets, 10/14 swg	Tata/Jindal/Sail	