

HINDUSTAN AERONAUTICS LIMITED
ARDC Division, MARATHALLI POST, Bangalore- 560037.
Karnataka - INDIA
Phone: 080-22324185/4187
works.ardc@hal-india.com
NOTICE INVITING TENDER

Tender Ref No: HAL/ARDC/Tender Cell/ 249R/17

Date: 30.10.2017

OPEN TENDER (Manual-Mode) & TWO BID SYSTEMS

Sub: Electrical Works at mini UAV - Ground test Lab in Structure Assembly Hangar at ARDC

Sealed tenders are invited in **TWO BID SYSTEM** from reputed contractors in the prescribed form, for the subject work.

Kindly ensure that the offer/ tender documents are submitted in prescribed format sent here with/ downloaded from the website duly signed with seal & ensure that the tender reference number is written on the envelope & should reach on or before DUE DATE by 15:00 hours, to the address given below.

AGM (Maintenance), ARDC Division, HINDUSTAN AERONAUTICS LIMITED, MARATHALLI POST, Bangalore- 560037. Karnataka - INDIA. Phone: 080 -22324185/22324187

1.	Name of the Work	Electrical Works at mini UAV - Ground test Lab in Structure Assembly Hangar at ARDC
2	Value of the Work in Rs (Approx) inclusive of all taxes	Rs. 2.90 lakhs
3	Contract Period	3 Months
4	Tender Document Fee	Rs 528.00
5	EMD	Rs.2,900.00
6	Tender Released Date	30.10.2017
7	Tender Due Date & Time	30.11.2017 15:00 Hrs
8	Tender Opening Date & Time	01.12.2017 10:30 Hrs
9	Validity of the offer	Minimum 90 days.
10	Solvency	Rs. 1.16 Lakhs The solvency certificate shall be from a national or schedule bank & issued within a period of 12 months from the final date of submission of tenders)

*In case the Due Date happens to be holiday, the next working day will be Due date and the succeeding day will be bid Opening Date.

The Tender document fee and EMD amount should be submitted along with the quotation in the form of 2 separate Demand drafts/Banker's cheque, drawn from Nationalized/Scheduled bank issued after date of this notification in favor of "ARDC Division, HAL Bangalore-37, payable at Bangalore

No other means of payment will be accepted. In case Tender Fee & EMD is not submitted along with the Bid, the bid will be liable for rejection. Vendors exempted from the submission of EMD, etc as per Govt. of India directives, must submit certified copy of GOI's authority for such exemption in lieu of EMD, etc. to be submitted to above mentioned address on or before due date and time.

Note:

1. Tender can be submitted on or before the due date & time. The intended tenderer can be present at the time of tender opening.
2. Tenders received after due date & time shall not be opened and shall not be considered.
3. HAL, ARDC reserves the right to issue/accept any tender, in part or in full and to reject any or incomplete offers or all tenders without assigning any reasons thereof.
4. EMD will be adjusted towards security deposit of the successful bidder and refunded to unsuccessful bidder/s.
5. HAL shall not be responsible for the delay, non receipt of tenders submitted by post.
6. All supporting documents should be signed and stamped by authorized signatory of the firm.
7. The details of Scope of work, Terms & conditions and General Instructions are available on www.hal-india.com/tenders & the same may be down loaded on acceptance of terms & Conditions.
8. The “Technical bid” should be super scribed on Technical bid envelope and should contain DD’s towards EMD & Tender document cost, pre qualification bid, acceptance & submission of NIT, with terms & conditions, scope of work, Micro Small Medium Enterprises (MSME) certificate (if registered) etc. duly signed by the authorized signatory with seal.
9. The “commercial bid/Price bid” should be super scribed on commercial bid envelope along with tender reference and should contain the quotation/offer only in prescribed quotation format as given in the NIT.
10. The agencies registered with National small industries corporation (NSIC) shall be exempted from the payment of Tender Document and EMD only as defined under “ public procurement policy for Micro and Small enterprises (MSE’s) order 2012” as notified by the Govt of India, Ministry of Micro, Small & Medium Enterprises, New Delhi vide Gazette Notification dated :26.03.2012.
11. Security deposit has to be submitted on award of contract as described in the tender document; however any change in guideline in this regard by GOI shall be considered till opening of tender.

Yours faithfully,
For HINDUSTAN AERONAUTICS LIMITED

Sd/-

Tender Cell - Plant Engineering Dept.
ARDC

Signature with Name and Seal of Bidder

Terms & conditions

Sub: Electrical Works at mini UAV - Ground test Lab in Structure Assembly Hangar at ARDC.

1.0 The Pre-qualification requirements for the works are as under:

1.1 Latest Bankers Solvency Certificate issued not earlier than 12 months from the date of this tender notice from Nationalized/ Scheduled Bank

1.2 Average annual financial turn over during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of estimated cost.

1.3 Experience of having successfully completed similar works (Service works) during last 7 years from the date of tender notice should be either of the following:

a) Three similar completed works each costing not less than an amount equal to 40% of estimated value mentioned against each work in the tender notice.

Or

b) Two similar completed works each costing not less than an amount equal to 50% estimated value mentioned against each work in the tender notice.

Or

c) One similar completed works each costing not less than an amount equal to 80% estimated value mentioned against each work in the tender notice.

NOTE: This shall be Sent with the copies of the work orders and completion Certificate issued by respective clients. If the completion certificate is from Private organization the same shall be subitted with TDS certificate.

2.0 The General details:

2.1 Cost of tender document: The cost as specified to be submitted in the form of DD/ bankers cheque drawn in favour of ARDC Division, HAL Bangalore-37, payable at Bangalore. To be submitted to the address mentioned below so as to reach Latest by 15:00 Hrs on the last date of submission.

2.2. Earnest Money Deposit: Earnest Money Deposit as specified to be furnished in the form of Demand Draft/ Bankers cheque drawn in favour of ARDC Division, HAL Bangalore-37, payable at Bangalore and to be submitted to the address mentioned below so as to reach Latest by 15:00 Hrs on the last date of submission. Vendors exempted from the submission of EMD, etc as per Govt. of India directives must submit certified copy of GOI's authority for such exemption in lieu of EMD, etc.

2.3 The cost of tender document and EMD to reach the following address up to 15.00 Hrs. on the last date of submission for tender document as mentioned in tender notice failing which tender will not be opened and any postal delay or any other reasons what so ever maybe will not be considered.

Addl. General Manager [Plant Maintenance], “ Tender Cell”

ARDC Division,

Hindustan Aeronautics Ltd

Marathalli Post , Bangalore - 560037

Phone: 080-22324185/4187

3.0 General Instructions:

3.1 Tenders of those Tenderer who fulfill the criteria mentioned at 1.0 (Pre Qualification) will only be considered in scrutinizing procedure of contract. Incomplete / invalid tenders are liable for rejection and no correspondence will be entertained in case of rejection.

3.3 Non enclosing of requisite documents due to negligence or ignorance by the tenderer leading to disqualification to be borne by the tenderer only. There shall be no claim whatsoever in this regard.

3.4 ECS/IFS code details are to be enclosed including the name of the bank, branch and account no.

3.5 In case of Service works only agencies possessing their own ESI Code No and valid Service Tax registration number need apply along with proof of the same shall be uploaded. Price Bid shall be opened of only those who full fill this requirement.

4.0 General Terms:

4.1 Contractors / agencies are subject to be disqualified, even though they meet the qualifying criteria, if they

- Make misleading or false representations in the request, statements and attachments submitted in proof of qualification requirements including holding information and / or
- Have record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures, requesting for claims not admissible under the contract conditions, etc.

4.2 Tender Documents duly filled & uploaded within the last date of submission as mentioned in the tender notice. The last date for receipt of Tender will not be extended under any circumstances, unless otherwise the date is declared a holiday for HAL, in which case the next working day will be treated as the last date of receipt of Tender document.

Note:

1. Tender can be submitted on or before the due date & time. The intended tenderer can be present at the time of tender opening.
2. No correction / editing in the content of tender document, in case any modification / editing is noticed the tender will be rejected summarily.
3. HAL reserves the right to issue / accept any tender, in part or in full or to reject any or all tenders without assigning any reason thereof. Issuance of document shall not be automatically construed qualification of intending tenders.

INSTRUCTION TO BIDDER

1. Should a tenderer find discrepancies or omissions in the drawings or any of the tender documents or should be in doubt as to their meaning he should at once address to the authority inviting tender for clarification. Every Endeavour is made to avoid any errors which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof. The decision of H.A.L shall be final and binding on the tenderer in this respect.

2. In quoting their rates, the tenderer are advised to take into account all factors of any fluctuations in the market rates, etc. No claims will be entertained on this account after acceptance of the tender or during the currency of the contract.

3. Before tendering, the tenderer are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevalent conditions, position of materials and labour, specifications and all other documents which form part of the agreement to be entered into.

4. The rates quoted in the tender shall remain valid for 90 days from the date of opening of tenders.

5. Acceptance of work, Signing of Contract, Submission of Security Deposit & Start of work

(i) HAL will notify the successful Bidder that its bid has been accepted, HAL will send the bidder the Acceptance letter and Contract agreement copy incorporating all agreements between the parties. The acceptance letter also forms part of the contract document and you are requested to sign three Copies of acceptance letter sent in confirmation of your concurrence and return them to the office of the Addl General Manager (Plant Maintenance), ARDC Division, HAL, Bangalore-560017 within 10 days of acceptance letter failing which it would be deemed that you are not interested in the work and action as per contract conditions will be taken.

(ii) Agreement: The Contractor shall submit the contract agreement on a stamp paper of Rs.100/- in a prescribed form dully signed within 30 Days of issue of acceptance letter to the Additional General Manager (Plant Maintenance), ARDC Division, HAL, Bangalore-560037, HAL, failing which a penalty of Rs. 2500.00 per week delay to a maximum of Rs.10, 000.00 will be levied for delay in submission.

(iii) The earnest money deposit paid along with the tender by the successful tenderer will be adjusted towards security deposit. After the acceptance of the tender the contractor shall deposit the difference between the Earnest Money and the full security deposit. Where the contractor has lodged a standing earnest money, he shall deposit the full amount of the required security deposit

on or before the date indicated in the acceptance letter of the tender. No interest shall be paid on the security Deposit & EMD.

(iv) Upon receipt of the signed Acceptance letter, Contract agreement on stamp paper & Security deposit, HAL will issue the Work Order.

6. If a tenderer withdraws his offer after submission of his tender, fails to start the work in accordance with the instructions of the Engineer-in-Charge, the Earnest money deposited by him may be forfeited without prejudice to any other remedy available to the company under the contract.

7. The earnest money deposit is also liable to be forfeited in case HAL feels that the tender is not Bona fide or the tenderer modifies or revokes the tender during the period the tenders are kept open. The decision of HAL whether a tender is bona fide or not, is final and conclusive, and is binding on the tenderer. The earnest money is also liable to be forfeited in case the tenderer produce false information or documents to take the tender.

8. Conditional tenders (in Price bid or Technical bid) will be liable for rejection. HAL reserve the right to accept or reject the tenders with deviation. Request/demand for modifications/changes in Technical or Price bid after submission of bids will also not be accepted. In both these cases, EMD of the tenderer will be forfeited. Tenders, who are incomplete, otherwise considered defective and tenders not in accordance, with tender conditions laid down by HAL are liable to be rejected.

9. Tenders not submitted on prescribed format are liable to be rejected.

10. The work must be completed within stipulated period from the day of issue of the order to commence the work. In case of delay penalty as specified in tender document shall be deducted.

11. This tender notice / Tender Document shall be deemed to form an integral part of the contract to be entered for this work.

12. The acceptance of the tender rest with HAL. HAL does not bind to accept the lowest tender and reserves the right to accept or reject any or all tenders without assigning any reasons. All tenders, in which any of the prescribed conditions are not fulfilled or are incomplete in any respect, are liable to be rejected.

13. The contract is non transferable & cannot be sub contracted.

14. The contractor applying for tender shall furnish the following credentials with bid:

Balance sheet/Trading/Profit and loss account for the past 3 years.

Photo copy of Income Tax PAN Card issued by Income Tax Department.

Registration certificates from any Government Department / PSU's/ Reputed Industrial Establishments.

Organization setup details.

PF & ESI registration certificate.

Proof of service tax registration.

Copy of TIN/VAT certificate

Bank account details

Email id/Phone no/Mobile no/Contact person

Latest Bankers solvency certificate issued not less than 12 months before from Nationalized/ Schedule bank for amount not less than **Rs. 1.16 Lakhs**

GENERAL TERMS & CONDITIONS OF THE TENDER

Note: The terms and conditions in the Scope of work wherever applicable will supersede the relevant general terms & conditions.

1. The contractor's responsibility for this contract shall commence from the date indicated in the order of acceptance of his tender.

2. During the maintenance period / defect liability period (if applicable), the contractor shall be Responsible to make good of all defects or damages which are due to defective workmanship / use of substandard materials at free of cost. If the contractor fails to make good such defects or damages even after intimation to him within a reasonable time. HAL shall get the same rectified as deemed fit at the contractors risk and the expenditure incurred by HAL shall be recovered from any bills or deposits of the contractor either pertaining to this contract or from any other contracts.

3. Words imparting the singular number shall also be deemed to include the plural number and vice versa where the context so requires.

4. If there are varying or conflicting provisions made in any one of the documents forming part of the contract, HAL shall be the sole deciding authority with regard to the intention of the document and his decision in this respect shall be final and binding.

5. The tenderer shall not increase his quoted rates in case HAL negotiates for reduction of rates. Such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be valid for a period of 90 days from the date of opening of tenders.

6. Canvassing in any form in connection with the tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to be rejected.

7. Security Deposit:

The successful tenderer, shall have to, provide/submit 10% of contract value as Security Deposit to HAL of the total value of the order for the due fulfillment of the Contract either in Demand Draft or Bank Guarantee of any Scheduled Bank in a form approved by HAL. This Security Deposit will bear no interest and will be returned only after the Contract is completed in all respect (Including defect liability period if any) to the entire satisfaction of HAL. The security deposit shall be calculated as under for works in HAL. The contractor shall deposit prescribed security deposit within 30 days of issue of acceptance letter, failing which penalty @ 2 % of security deposit per week or part thereof with maximum penalty of 25% of security deposit will be levied for delay in submission. The contractor will not be generally allowed to start the work without submission of security deposit unless otherwise ordered by engineer in incharge in exceptional/emergent works.

VALUE OF WORK	SECURITY DEPOSIT
For works up to Rs 1.Lakhs in value	10%
For works valuing more than Rs.1.00 Lakhs.	10% for first one Lakh, 7 ½ on the balance of contract sum
For works valuing more than Rs.2.00 Lakhs	10% for first one Lakh, 7 ½ for next one Lakh and 5% on the balance contract sum.

8. The security deposit as a whole is liable to be forfeited in case the contractor fails to complete and abandons the work or any other misconduct.

9. These instructions to tenderer shall be deemed to form an integral part of the contract.

Other Terms & Condition:

1. SCOPE OF THE CONTRACT:

The Contract covers all works described in scope of work. The unit rate quoted by the tenderer shall be deemed to have included for any minor details which may not have referred to in this document but are essential for the execution for completion of the work in all respect.

The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions and to the satisfaction of the User department.

2. TIME:

Time is the essence of the contract and the same is specified in the contract documents. The work to be completed within the limitation of the time imposed in the contract documents, or order. Engineer In-charge shall certify to the contractor the date on which the works is completed and stage thereof. The compensation for delay will be applicable.

3. TOOLS, PLANT AND EQUIPMENT:

The contractor shall at his own expenses supply all tools, plant and equipments etc. required for the work under this contract. All tools, plant and equipment etc. brought to the site by the contractor shall be brought under PP (private property) form duly endorsed by HAL Security. While taking back the items brought under PP form, the written permission of Engineer -In Charge should be taken.

4. TAXES, ROYALTIES, DUTIES ETC:

Notwithstanding anything contained anywhere in any of the documents under this contract, unless otherwise specifically agreed to by HAL, ARDC Division, the contract rate / rates as per this contract, shall be deemed to be inclusive of all taxes (Central or State Government), royalties, octroi and duties including the service tax on works contract whatsoever and the contractor shall not be entitled to any reimbursement thereof. It shall be the responsibility of the contractor to pay all royalties whatsoever whether / arising out of the deed and actions on the part of the contractor either on HAL's property or otherwise to the authorities concerned.

In case HAL is required to pay such royalties due to failure on the part of the contractor in paying the same, HAL shall recover the same from the contractor in a manner as deemed fit by it.

5. NOTICES AND FEES

The contractor shall give all notices required by any statutory provision or by the regulations and/or bye-laws of any local authority and/or of any public service, company or any Government affected by the work or with whose systems the same are or will be connected. The contractor shall pay and indemnify HAL against any fee and charges demandable by law under such Acts, Regulations and/or bye-laws in respect of the work and shall make and supply all drawings required in connection with any such notices at his own cost.

6. CONTRACTOR'S SUPERVISION

The contractor shall either himself supervise the execution of the contract work or shall appoint a Competent Personnel on his behalf.

7. EXECUTION OF THE WORK

The work shall be executed in a workman like manner and to the satisfaction, in all respects of the Engineer-in charge. The contractor is entitled for payment of any work or items of works executed by him only after passing the said executed works by the Engineer-in-Charge of HAL

8. INSPECTION OF THE WORK

HAL officers concerned with the contract shall have power at any time to inspect and examine the work

9 RESPONSIBILITY OF CONTRACTOR AGAINST RISKS

During currency of the contract it shall be the responsibility of the contractor to safeguard all materials (tools, plant, equipment etc. either issued by HAL or brought by the contractor), against all losses, damages thefts shortages, fire or any reasons whatsoever and HAL shall not be responsible for losses, damages etc. as aforesaid. The contractor shall solely be responsible for protecting and securing such property.

10 DAMAGES AND LOSSES TO THE PRIVATE PROPERTY AND INJURY TO THE WORKMEN

The contractor shall at his own expenses reinstate and make good to the satisfaction of the HAL and pay compensation for any injury, loss or damages occasioned to any property or rights of HAL or agents, servants and employees of HAL which in any way arising out or in any way in connection with the execution or proposed execution of the contract work shall be responsible to bear and pay all compensations whatsoever, which are payable to his workmen either under the Workmen's Compensations Act or under any labour enactments. The contractor shall indemnify HAL against all claims enforceable against HAL or against its servants or employees or which would be so enforceable in respect of such injury (including injury resulting in death), loss or damages to any person, property, whatsoever, including all claims which may arise under Workmen's Compensations Act or under any of the labour enactments. In case HAL is liable to pay or payable any compensation, as aforesaid, due to the failure on the part of the contractor in paying the same, HAL reserves the right to recover all such amounts paid or payable by HAL from the contractor.

11 LAW GOVERNING THE CONTRACT

This contract shall be governed by the Indian Laws for the time being in force and as modified from time to time.

12 EXTENSION OF TIME

a) Time is the essence of the contract and the contractor shall be required to complete the work in all respects within the time stipulated in the contract, since the contractor's quotation depends upon the time allowed. However, if in the opinion of HAL the work is delayed by reasons of:

i) Abnormally bad weather, or

ii) By reasons of serious loss or damage by fire, or

iii) By reason of Civil commotion, local combination of workmen strike or lockout affecting any of the trades employed on the work, or

iv) By delay on the part of the agency or tradesmen engaged by HAL in executing the work not forming part of this contractor, or

v) By reason of any other cause which is the absolute discretion of the HAL is beyond the contractor's control, then in any such case HAL on the recommendations of the Engineer-in-charge, may make fair and reasonable extension of time in the completion date of the individual items of work or the contract as a whole, and such extension which will be communicated to the contractor by HAL in writing shall be final and binding on the contractor. No claim whatsoever in this respect either for compensation or otherwise shall be admissible.

b) In case there is delay in the issue of materials by HAL, on the recommendations of the Engineer-in-charge may consider reasonable extension of time for completion of work or the individual items of works as the case may be. No claim whatsoever in this respect either for compensation or otherwise shall be admissible.

c) Upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to Engineer-in-charge but shall nevertheless use constantly his best endeavor to prevent or make good, the delay and shall do all that may reasonably be required to the satisfaction of HAL

13. SUBMISSIONS OF AGREEMENT, BANK GUARANTEE, ETC.

Any agreements, bank guarantees, etc required to be executed under this contract shall be made at the cost of the contractor with proper stamp duty as per the prescribed Formats d respectively. However, HAL shall have the right to alter, modify, delete any materials in such formats as deemed fit by him.

14. ENCASHMENT OF BANK GUARANTEE

HAL shall have full rights whatsoever to en-cash any bank guarantee executed under this contract at any time during the validity of the guarantee and the contractor shall have no right or claim whatsoever in the matter of encashment of the bank guarantee amount by HAL and any disputes/claims whatsoever in this regard shall only be settled by means of arbitration as provided for in this contract and the decision of HAL as to what amount is due to HAL from the said bank against the guarantee and as to contractor has committed breach of contract or not, shall be final and binding on the guarantor-bank and the contractor shall have no right to interfere with the same except for agitate/claim/dispute the same before the arbitration and the bank shall have full right in terms of the guarantee to make immediate payments against the bank guarantee to HAL without the contractors consent and without referring the matter to the contractor.

15. ARBITRATION

Arbitration: Except where otherwise provided for in the contract, all question and disputes relating to the meaning of the specifications, designs, drawing and instruction herein before mentioned and as to quality of workmanship of materials used on the work or as to any other question claim right matter or thing what so ever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, order or the conditions or otherwise concerning the work, or the execution or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the General Manager and if the General Manager is unable or

iii) By reason of Civil commotion, local combination of workmen strike or lockout affecting any of the trades employed on the work, or

iv) By delay on the part of the agency or tradesmen engaged by HAL in executing the work not forming part of this contractor, or

v) By reason of any other cause which is the absolute discretion of the HAL is beyond the contractor's control, then in any such case HAL on the recommendations of the Engineer-in-charge, may make fair and reasonable extension of time in the completion date of the individual items of

work or the contract as a whole, and such extension which will be communicated to the contractor by HAL in writing shall be final and binding on the contractor. No claim whatsoever in this respect either for compensation or otherwise shall be admissible.

b) In case there is delay in the issue of materials by HAL, on the recommendations of the Engineer-in-charge may consider reasonable extension of time for completion of work or the individual items of works as the case may be. No claim whatsoever in this respect either for compensation or otherwise shall be admissible.

c) Upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to Engineer-in-charge but shall nevertheless use constantly his best endeavor to prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of HAL

16. JURISDICTION

Notwithstanding anything contained elsewhere in this contract, quotations of the contractor or in any other documents whatsoever, for the purpose of jurisdiction, the Courts at Bangalore shall only have jurisdiction to try and matter or disputes arising out of this contract.

17. COMPENSATION FOR DELAY IN COMPLETION OF WORK

If the contractor fails to complete the works in all respects and clear the site on or before the date (s) for completion, he shall without prejudice to any other rights or remedy of the HAL on account of such breach, be liable to pay compensation to the company as follows:

SI No	COMPLETION PERIOD AS ORGINALLY STIPULATED	COMPENSATION	MAXIMUM
01	Below six months	1% per week on contract sum	10%
02	From 6 months to 2 years	0.5% per week on contract sum	7.5%
03	For works above 24 Months	0.25 per week on contract sum	5%

When the delay is not a full week or in multiple of a week but involves fraction of the week the compensation payable for that fraction shall be proportionate to the number of days involved.

18. CANCELLATIONS OF CONTRACT / CORRUPT PRACTICES

HAL, whose decision shall be final and conclusive shall without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to HAL, cancel the contract in any of the following cases and the contractor shall be liable to make payment to HAL for any loss or damage resulting from any such cancellation to the same extent as provided in the case of cancellation for default.

If the contractor:

a) Offer or give or agree to give to any person in HAL service any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or for having done or for borne to do any act in relation to the obtaining or execution of this or any other contract for HAL service or

b) Enter into a contract with HAL in connection with which commission has been paid or agreed to be paid by his or with his knowledge unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to the HAL.

c) Obtain a contract with HAL as a result of ring tendering or by non-bonafide methods of competitive tendering without first disclosing the fact in writing to the HAL

d) Misrepresent any fact while tendering for any work or create conditions favorable for acceptance of his tender.

19. CANCELLATION OF CONTRACT FOR INSOLVANCY ASSIGNMENT, TRANSFER, OR SUBLETTING OF CONTRACT

HAL may without prejudice to any other right or remedy which shall have accrued or shall accrue there after HAL, shall cancel the contract in any of the following cases:

- a) Being an individual, or if a firm, any partner thereof shall at any time be adjudged bankrupt or have a receiving order or order for administration of his estate made against him or shall take any proceeding for liquidation of compensation under any Bankruptcy Act for the time being in force or make any conveyance or assignment of his effects or composition or arrangement for the benefit of his creditors or propose to do so, or if any application be made under any Bankruptcy Act for the time being in force for the sequestration of his estate or if a trust deed be rented by him on behalf of his creditors of.
- b) Being a company shall pass a resolution or the court shall make an order for the liquidation on its affairs, or a receiver or Manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the court or debenture holders to appoint a receiver or Manager or.
- c) Assigns, transfers, sublets or attempts to assign, transfer or sublet any portion of the work without the prior written approval of the HAL. Whenever the HAL exercises its authority to cancel the contract under this condition, HAL may complete the work by any means at the contractor's risk and expense provided always that in the event of cost of completion (as certified by HAL which is final & conclusive) being less than the contract cost, the advantage shall accrue to the HAL and that if the cost of completion exceeds the moneys due to the contractor the contractor shall either pay the excess amount ordered by HAL or the same shall be recovered from the contractor by other means. In case the HAL completes the work under the provisions of this conditions, the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor under this condition shall consist of the cost of material purchased and labour provided by the HAL with an addition of such percentage to cover superintendence and establishment charges, as decided by the HAL, whose decision shall be final and conclusive.

20. CANCELLATION OF CONTRACT FOR DEFAULT OF THE CONTRACTOR

- a) If the contractor makes default in commencing the work within a reasonable time or within the time specified, or having taken over the site does not commence the work within a reasonable time, or if the contractor, in the opinion of HAL during the currency of the contract makes default in proceeding with the work, or progress of work is slow, or in the opinion of HAL the workmanship is poor, or if the contractor fails to comply with any of the terms and condition of the contract, or fails to complete the work in full or part and clears the site on or before the date of completion, or fails to achieve the progress as set out under the contract or fails to carry out the orders issued by the Engineer-in-charge or Deputies or abandons the contract or otherwise commits any breach of contract, the HAL or any other officer nominated by HAL shall cancel the contract as a whole or in part or any items of work under the contract without any prior notice to the contractor at the sole cost, risk and expense of the contractor and get the balance work executed either by HAL itself, or by another contract or through any other agency as deemed fit. In such an event, the contractor shall be liable to make to make good and compensate all losses, expenses whatsoever, incurred or to be incurred, by the HAL.
- b) In case HAL completes the work by itself, the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor shall consist of cost of all materials and labour provided by HAL with an addition of such percentage to cover superintendence and establishment charges, as may be decided by HAL, whose decision shall be final, conclusive, and binding on the contractor.
- c) In the event of completion of the work either by HAL or by another contractor or through any other agency ,if the cost of completion works out less than the cost under this contract, advantage shall accrue to the HAL.

21. SPECIAL POWERS OF CANCELLATION OF CONTRACT/ FORECLOSURE OF CONTRACT

If at any time after acceptance of the tender HAL feels that for any reasons whatsoever, if the whose or any part of the work is not required to be carried out, HAL shall give notice in writing of the fact to the contractor and upon receipt of such notice the contractor shall stop the execution of such work as indicated in the notice forthwith. The contractor shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the work in full, but which he did not derive in consequence of the foreclosing of the work. He shall be paid at contract rates for the full amount of the work executed including such additional work (e.g. clearing of site etc) as may be rendered necessary by

said foreclosing. He shall also be allowed a reasonable payment (as decided by HAL, which shall be final and binding on the contractor) for any expenses sustained on account of labour and materials collected, brought to site or for which the contractor is legally bound to accept delivery from the supplies, but which could not be utilized for the work as verified by the HAL

22. RECOVERIES FROM THE CONTRACTOR

Notwithstanding anything contained anywhere in this contract, the HAL shall be entitled to recover, deduct, retain, withhold, appropriate, adjust or otherwise to do anything as deemed fit, from any amounts, payable to the contractor or which may any time become payable thereafter, under this contract or any other contracts entered into by HAL with the contractor, towards the HAL's dues payable by the contractor, whether the matters are in sub-judice or not, under this contract or any other contracts entered into by HAL with the contractor. All compensations or other sums of money payable by the contractor under the terms of this contract may be deducted from his security deposit or from any sum which may be due to or become due to contractor by company or any accounts whatsoever and in the event of security deposit being reduced by reason of any such deductions, the contractor shall within 10 days make good in cash. The works are also liable to be examined by Chief Technical Examiner under CVC and Vigilance departments. Appropriate recoveries will be affected from the contractors from any amount due for payment against any works executed/executing in HAL in case deficiencies if any pointed out by the above investigating agencies. The contractor shall maintain all records and registers as directed by Engineer in Charge and shall be updated

with signature of concerned HAL officials and representatives of contractor.

23. WORKMEN'S COMPENSATION ACT AND OTHER LABOUR ACT

The Contractor shall remain liable for the payment of all wages or other money to his work people or employees under the Payment of Wages Act 1963, Employer liability Act 1933, workmen's compensation act.1923, ESI Act or any other Act or enactment relating thereto and rules framed there under from time to time. This contract will be governed by the entire statutory & safety requirement laid by Government of India & its amendment there-off.

24. FAIR WAGES

The Contractor shall pay wages not less than fair wages to laborers and to follow Minimum Wages Act , fair wage means wage for the various categories of labour workmen fixed from time to time by the Labour Authorities of the area. The Contractor shall ascertain the minimum fair wage prevailing in the area before submitting tender. The Contractor should also abide' by all regulations of labour in regard to the payment of wages, wage period, deduction from wages, recovery of wages not paid and deduction unauthorized made, maintenance of wage book, wage slip, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and all other matters of a like nature:

The Contractor shall duly comply with all the requirement of the Labour Law, Minimum Wages Act, wherever it is applicable, Contract Labour (Regulation and Abolition) Act, Workmen Compensation Act, Provident-Fund Act and the Rules Made there under, Employees States Insurance Act and other Acts are as applicable from time to time and shall keep HAL fully indemnified and harmless against any action or proceedings, costs of claims, loss or any liability arising against HAL at the instance of the workmen employed by the Contractor, or of authorities under the respective Acts and against breach of any of the provision of the above said Acts. The Contractor shall also comply with the requirements' of act regarding the employment of the Child Labour In so far as it relates to complying with provision of Provident Fund Act 1963 and the scheme framed their under, and Employees State Insurance Act, by the Contractor ,HAL shall be entitled to recover from the Contractor (in case the Contractor fails to comply) all sums and charges paid / payable or incurred by HAL in connection with the Provident Fund or any other recovery in respect of the Contractors workmen such as, sums including their contribution, cost of administering the act and administrative expenses incurred by HAL etc., as also the sums payable in respect of which workmen employed by the Contractor towards the Employees State Insurance contribution. The Contractor shall maintain Register showing the names, addresses and other particulars of the insured persons and also obtain ESI / Medical Identity Cards and distribute them to his laborers as employed by him.

25. POWER OF HAL OFFICERS

The Labour Welfare Officer of HAL or any other persons authorized by the HAL on their behalf shall have power to make enquiries with a view to ascertaining and enforcing due and proper observance of the fair wages clauses and the provision of these Regulations. He shall investigate into any complaint regarding the default made by the contractor / sub-contractor in regard to such provisions.

26. ENTRY AND EXIT OF CONTRACTORS LABOURS

The contractor shall regulate the entry and exist of his laborers every day in the Factory premises after declaring all the particulars of the Laborers only as per the instructions of HAL.

27. ENTRY OF STAFF TO HAL PREMISES

a) Entry of your staff engaged for this work shall be controlled as per HAL security rules & regulations.

b) You have to submit the under taking on behalf of your employees / staff deputed for the work in the following format. I have appointed following persons:

I. Supervisor

II. Technician

III. Helper

IV. Labour against work order no. _____ Dated _____ and are responsible for good conduct of these person as well for all their dues as per the applicable loss and rules.

c) The pass for entry will be provided on police verification for contractor & contractor staff by Security Department.

d) Pass will be issued on recommendation of Engineer In-charge / Chief Manager (Security).

28. FALL CLAUSE

a) The price charged for the stores supplied under the contract shall be in no event exceed the lowest price at which the contractor sells the stores or offers to sell stores of identical description to any persons/organizations including the purchaser of any department of the Central Govt. or any Dept. of the State Govt. or any statutory undertaking of the Central or State Govt., as the case may be during the period till the performance of the supply order placed and during currency of the contract is completed.

b) If at any time during the said period, the contractor reduces the sales price, sells or offers to sell such stores to any person/organization including the purchaser or any department of Central Govt. or any Dept. of State Govt., or any statutory undertaking of the Central or State Govt., as the case may be at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction/sale or offer to sale to the Hindustan Aeronautics Limited and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale or offer to sale shall stand correspondingly reduced.

29. PAYMENT PROCEDURE (GENERAL)

Payment will be made on completion of the work in all respects to the entire satisfaction of the Engineer-in charge Payment to the contractors will be made through RTGS/NEFT/Bank transfers mode only. Contractors need to submit all the required Bank details to us along with the tender submitted by them so as to have timely payment /refunds if any to them.

The contractor shall consider and include all his claims whatsoever in the final bill which shall construe and mean that the contractor shall not have any other claims whatsoever against HAL under this contract other than those indicated in the final bill. For this purpose the contractor shall enclose to the final bill a No demand Certificate, stating that they do not have any other claims whatsoever against the company under this contract, accept the claims indicated in the final bill and defect liability amount if any. On receipt of the final bill duly signed by the contractor with all the aforesaid enclosures, the same will be scrutinized by the Engineer-in-charge to see whether the claims are in order.

The Engineer-in-charge will also enclose a certificate that entire work under the contract has been completed according to the specification or below specifications and will also recommend what recoveries are to be made The final bill duly signed by the Engineer-in-charge along with all the aforesaid requirements, enclosures will be submitted to the Ch. Manager (PM) for his scrutiny and

approval before forwarding to the amounts for payment. No claims of the contractor whatsoever shall be entertained after payment of the final bill.

The contractor has to carry out the work in accordance with the General Safety Instructions which ever applicable given to him from time to time besides he shall strictly conform to the various safety measures required to be observed under various laws applicable and provide all safety applications etc. to his workers and ensure that his workers duly and strictly comply with all such requirements. The contractor shall in all respects be responsible for the safety of the workers employed by him.

Along with Invoices the following documents should be enclosed in every quarter bill/One time repair bill

- a) Copy of the ESI/PF paid challan and wage statement for the respective quarter with undertaking letter that "The employees reflecting in wage statement (deputed at ARDC for respective work) are under coverage of ESI/PF and their respective amount is included in the paid amount."
- b) Copy of the GST paid challan for respective month/Quarter/Year (If applicable)
- c) Payment will be done on quarterly basis for AMC/CAMC and for OTR/One time supply payment will be made on completion of the work.
- d) The vendor should quote and claim the GST amount which is applicable and paid by the firm. HAL portion of GST will be paid by HAL.

The following are the instructions on safety code to be followed by the contractor during execution of the work.

- i) Suitable scaffolds shall be provided for workmen for all work that cannot safely be done from the ground, or from solid constructions except such short period work as can be done safely from ladders. When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than $\frac{1}{4}$ to $1 \frac{1}{4}$ horizontal and vertical.
- ii) Scaffolding or staging more than 3.25 meters above the ground or floor, swing or suspended from an overhead support or erected with stationary support, shall have a guard rail properly attached, bolted braced and otherwise secured at least 1 meter high above the floor or platform of such scaffolding or staging and extending along with the entire length of the outside and ends thereof with only such opening as may be necessary for the delivery of materials such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- iii) Working platform, gangways and stairways shall be so constructed that they do not sag unduly or unequally, and if height of platform or gangway or stairway is more than 3.25 meters above ground level or floor level, it shall be closely boarded and have adequate width and be suitable fenced, as a described in (ii) above.
- iv) Every opening in floor of a building or in a working platform shall be provided with suitable means to prevent fall of persons, or materials by providing suitable fencing or railing with a minimum height of 1 meter.
- v) Safe means of access shall be provided to all working platform and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 meters in length. Width between side rails in a rung ladder shall in no case be less than 30 cm. For ladder up to and including 3 meters in length. Uniform step spacing shall not exceed 30 cm. Adequate precautions shall be taken to prevent danger from electrical equipments. No materials on any of the sites shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and light to protect public from accidents and shall be bound to bear expenses of defense of every suit action or other proceedings at law that may be brought by any person for injury sustained owing to neglect of the above precautions and to pay any damages and costs which may be awarded in any such suit, action or proceedings to any such persons or which may, with the consent of the contractor, be paid to compromise any claim by such persons.
- vi) Excavation and Trenching: All trenches, 1.5 meters or more in depth shall at all times be supplied with at least one ladder for each 20 meters in length or fraction thereof. Ladder shall be extended from bottom of trench to at least 1 meter above surface of the ground. Sides of a trench

which is 1.5 meters or more in depth shall be stepped back to give suitable slope, or securely held by timber bracing so as to avoid the danger of sides collapsing. Excavated materials shall not be placed with 1.5 meters of edges of trench or half of depth or trench, whichever is more. Cutting shall be done from top to bottom under no circumstances shall undermining or undercutting be done. vii) Demolition: Before any demolition work is commenced and also during the process of the work.

a. All roads and open areas adjacent to the work site shall either be closed or suitably protected.

b. No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by operator shall remain electrically charged.

c. All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion, or flooring. No floor roof or other part of a building shall be so overloaded with debris or materials as to render it unsafe.

viii) All necessary personal safety equipment as considered adequate by the Engineer-in-charge shall be made available for use of persons employed on the site and maintained in a conditions suitable for immediate use, and the contractor shall take adequate steps to ensure proper use of equipment by those concerned .Workers employed on mixing asphaltic materials cement and lime mortar/concrete shall be provided with protective footwear and protective goggles.

Those engaged in handling any material which is injurious to eyes shall be provided with protective goggles. Those engaged in welding works shall be provided with welder's protective eye-shields. Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently at safe intervals. When workers are employed in sewers and manholes, which are in use the contractor shall ensure that manhole covers are opened and manholes are ventilated at least for an hour before workers are allowed to get into them. Manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to public. The contractor shall not employ men below the age of 18 and women on the work of painting with products containing lead in any form. Whenever men above the age of 18 are employed on the work of lead painting the following precautions shall be taken. No painting containing lead or lead products shall be used except in the forms of paste or readymade paint.

Suitable face masks shall be supplied for use, by workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scraped .Coverall shall be supplied by the contractor to workmen and adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

ix) When works is done near any place where there is risk of drawing, all necessary equipment shall be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

x) Use of hoisting machines and tackle including their attachments, anchorage and supports shall confirm to the following:

These shall be of good mechanical construction, sound materials and adequate strength and free from patent defects and shall be kept in good repair and in good working.

Every rope used in hoisting or lowering materials or as a means of suspension shall be of durable quality and adequate strength and free from patent defects.

Every crane driver or hoisting appliances operator shall be property qualified and no person under the age of 21 years shall be in-charge of any hoisting machine including any scaffold which give signals to operator

In case of every hoisting machine and of every chain ring hook, shackle swivel and pulley block used in hoisting or lowering or as means of suspension, safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with, safe working load. In case of hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated.

No part of any machine or of any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

In case of a departmental machine, safe working load shall be notified by the Engineer-in-charge. As regards contractor's machines the contractors shall notify safe working load of each machine to the Engineer-in-charge whenever he brings it to site of work and get it verified by the Engineer-in-charge.

xi) Motors gearing, transmission, electric wiring and other dangerous parts of hoisting appliances shall be provided with efficient safeguards, hoisting appliance shall be provided with such means as will reduce to the minimum risk of accidental descent of load. Adequate precautions shall be taken to reduce to the minimum risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations, which are already energized, insulating mats, working apparel such as gloves, sleeves, and boots as may be necessary, shall be provided. Workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.

xii) All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe conditions and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities shall be provided at or near place of work.

xiii) These safety provisions shall be brought to the notice of all concerned by display on a notice board at a prominent place at the workshop. Persons responsible for ensuring compliance with the Safety Code shall be named therein by the contractor.

xiv) To ensure effective enforcement of the rules and regulations relating to safety precautions, Arrangements made by the contractors shall be open to inspection by the Engineer-in-charge or his representatives and the Inspecting Officers as defined in the contractor's labour Regulations.

xv) Notwithstanding the above conditions (b) (i) to (xiv) the contractor is not exempted from the Operation of any other Act or rule in force

30. COVERAGE OF WORKMEN UNDER ESI, EPF AND OTHER LABOUR ACTS:

30.1 You are required to comply with the statutory rules (Regulation and Act) connected with ESI, EPF etc, Pertaining to the laborer engaged by you. You shall pay the EPF contributions regularly and the Security Deposit for the work shall be released to you only after the payments in respect of the above are completely paid by you to the appropriate authorities.

30.2 If required as per the stipulations under the contract Labour (Regulation and Abolition) ACT-1970, you are required to obtain and furnish valid registration certificate/license issued by the Assistant Labour Commissioner Central within 30 days of issue of acceptance letter.

31. The payment of RAR/Final bill pertaining to this work will be released by Finance department of ARDC Division (Bills Payable).

32. SAFETY CLAUSE:

You are requested to ensure all the safety measure for the safety of the workmen engaged in the work, you will be solely responsible for any accident to workers engaged by you while execution of work.

33. Rates quoted are inclusive of sales tax element on works contract.

34. RECOVERY OF SALES TAX AT SOURCE:

Sales Tax on Works Contract will be recovered as per the rates indicated in clause 19 A of the Act (KST) and the same will be remitted to the Tax authorities on monthly basis. A certificate to this effect will be issued to the contractors for claiming deduction in the tax payable by them.

Yours faithfully,
For HINDUSTAN AERONAUTICS LIMITED

Sd/-

Tender Cell - Plant Engineering Dept.
ARDC

Scope of Work

1. Contract agency has to supply, install & commission the light fittings and switch boards inclusive of all required civil & electrical works and necessary auxiliary items.
2. The contract agency has to supply and install MS / PVC boxes inclusive all civil works.
3. Switches and sockets have to be supplied and installed by contract agency. Point wiring includes surface mounting box, front plates, switches and sockets etc.
4. Contract agency has to supply, install & test the wiring as per BOQ. The agency has to do all the associated works required to complete the wiring.
5. The contract agency has to supply and install the distribution boxes for raw power points, air conditioning, UPS and lighting points. The firm has to carry out the internal wiring after fixing the MCB as per BOQ including testing. The incoming cables are to be tapped from the raw power panel in the vicinity and respective end terminations to be carried out.
6. Contract agency has to supply and install the industrial sockets for air conditioners and sockets raw power points and UPS points as per BOQ including all civil works up to smooth finishing of surfaces. The agency has to carry put a straight through LT UG cable joint as directed by Engineer in Charge.
7. The agency has to bring own tools and tackles required to execute the work. HAL will not provide any tool and tackles for same.
8. The agency has to provide one year warranty for the completed work.
9. The agency has to include the cost while tendering for any other miscellaneous item / work required completing the subject work, which is not included in the BOQ / scope of work. After finalization of contract any claim for extra payment will not be entertained by HAL.

Note: This scope of work is indicative and not exhaustive in nature and any other activity involved in this work which is not mentioned here,. The firm has to consider the same while quoting. Any additional payment for same will not be paid by HAL.

VENDOR QUOTATION FORMAT FOR ELECTRICAL WORKS FOR MINI UAV LAB AT STRUCTURAL ASSEMBLY

Sl. No.	Description	Qty.	Unit	Rate	Amount
1	<u>Distribution Board :</u> Supply, Installation, Testing & commissioning of following Distribution Boards on wall / steel structure / Aluminium channel				
1 (i)	3 Phase, 415 Volts, 4 Way TPN double door type DB for Lighting	1	Nos.		
1 (ii)	3 Phase, 415 Volts, 8 Way TPN double door type DB for A/c & raw power	1	Nos.		
1 (iii)	1 Phase, 230 Volts, 8 Way SPN double door type DB for UPS	1	Nos.		
2	<u>MCB :</u> Supply, Installation, Testing & commissioning of following rating MCBs				
2 (i)	63 Amps, 415 Volts, TPN, 10 KA, C Curve Incomer MCB	1	Nos.		
2 (ii)	32 Amps, 415 Volts, TPN, 10 KA, C Curve Incomer MCB	1	Nos.		
2 (iii)	20 Amps, 230 Volts, SPN, 10 KA, C Curve Incomer	1	Nos.		
2 (iv)	32 Amps, 415 Volts, 2 Pole, 10 KA, C Curve outgoing MCB for AC	5	Nos.		
2 (v)	10 Amps, 230 Volts, 1 Pole, 10 KA outgoing MCB for lighting and UPS	20	Nos.		
2 (vi)	16 Amps, 230 Volts, 1 Pole, 10 KA outgoing MCB for Raw power points	12	Nos.		
3	<u>Cabling :</u> Supply, Installation, Testing & commissioning of following size Aluminum conductor, 1100V grade, XLPE insulated, Armoured LT UG cable				
3 (i)	3.5Core x 25 Sqmm for A/c DB	15	m		
3 (ii)	4 Core x 16 Sqmm for power points DB	20	m		
3 (iii)	4 Core x 6 Sqmm for lighting DB	25	m		
4	<u>End Termination :</u> Supply & providing indoor / outdoor cable end joints for the following sizes of 1100V grade Aluminum conductor armoured UG cables including necessary glands, end terminals, bolts and nuts etc complete in all respect.				
4 (i)	3.5 Core x 25 Sqmm cable	2	Each		

4 (ii)	4 Core x 10 Sqmm cable	2	Each		
4 (iii)	4 Core x 6 Sqmm cable	2	Each		
5	Industrial Socket for Air conditioners: Supply, installation, testing and commissioning of Sheet steel metal enclosure including 32A DP MCB , neutral enclosure with two pin & earth plug socket with plug top etc complete in all respect.	4	Nos.		
6	Wiring for Air conditioner Points : Supply, laying and testing of FR PVC insulated copper conductor 2 R x 4 Sqmm + 1 R x 2.5 Sqmm including PVC pipe/ PVC casing capping on surface / in recess as required complete in all respect.	80	Rm		
7	Raw Power Point : Supply, installation, testing and commissioning of 16A, 6 Pin, Modular type Switch & socket combination	12	Sets		
8	Wiring for raw power Points, UPS Point and circuit wiring for lighting and UPS points : Supply, laying and testing of FR PVC insulated copper conductor 2 R x 2.5 Sqmm + 1 R x 1.5 Sqmm including PVC pipe/ PVC casing capping on surface / in recess as required complete in all respect.	250	Rm		
9	UPS Power Point : Supply, Installation, Testing & Commisioning of multipurpose flush type Socket & Switch outlet including 15/5A modular socket & 10 A switch alongwith internal wiring	15	Nos.		
10	Switch Board: Supply, fixing and testing of switch boards on wall, steel structure / Aluminium channel / as required including modular metal / PVC box suitable for surface mounting, front & back cover plate with necessary fasteners etc. complete in all respect.				
10 (i)	10 Module modular box with modular front & back cover plate	1	Set		
10 (ii)	8 Module modular box with modular front & back cover plate	2	Set		
10 (iii)	3 Module modular box with modular front & back cover plate	27	Nos.		
11	Supply, installation and testing of 1 way, 1 Module modular type 10 Amps Switches	20	nos.		
12	Supply, installation and testing of Modular Socket 6 A, 2/3 pin combined 2 module	3	nos.		

13	One light Point controlled by one switch using 1.5 Sqmm copper conductor multistrand wire including necessary PVC conduit / casing capping	20	Nos.		
14	Light Fixtures : Supply, installation, testing and commissioning of 36W LED Square light operating on Single phase, 230V, 50 Hz, AC supply, with voltage range 140V-270V, efficient heat sink, Colour temperature shall be > 500K, lumen output ≥ 2900 Lumens, suitable optics for maximizing the spread (Min: 120 degree). the luminaire shall have specific lens for optical dispersion. LED of Nichia, Cree/osram/philips/ any other reputed make with control gear, power factor>0.9, efficiency>85%, LM79 certification for luminaire and LM80 certificate for LED shall be produce and other standard accessories including necessary interconnections and supply of 36W LED light fitting, complete in all respects and as directed by Engineer-In-Charge.	16	Nos.		
15	Cable Jointing : Supply, Installation, testing & commissioning of LT cable joint kit for straight through joint of 3.5C x 300 Sqmm Aluminum conductor armored UG cable equivalent to Raychem make	1	job		
	Sub Total				
	GST@.....if any				
	Grand Total inclusive of taxes				
	In words: Rupees				