

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT  
TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT  
RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

<b>NIT No.</b>	:	<b>RLA/2025/1141</b>
<b>TITLE</b>	:	E-TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI
<b>OWNER</b>	:	<b>PRINCIPAL, RAM LAL ANAND COLLEGE</b>
<b>ADDRESS</b>	:	BENITO JUAREZ ROAD, NEW DELHI- 110 021
<b>WEBSITE</b>	:	<a href="http://WWW.RLACOLLEGE.EDU.IN">WWW.RLACOLLEGE.EDU.IN</a>
<b>TYPE OF TENDER</b>	:	OPEN- E TENDER (TWO COVER SYSTEM)
<b>ESTIMATED COST OF WORK</b>	:	<b>Rs. 70,00,000.00</b> Including Air Conditioning and Electrical component
<b>TENDER FEE</b>	:	<b>Rs 1000/- (RUPEES ONE THOUSAND ONLY)</b>
<b>DATE OF START</b>	:	05.03.2025 upto 2:00 PM
<b>LAST DATE OF SUBMISSION OF TECHNICAL BID DOCUMENT</b>	:	19.03.2025 upto 2:00 PM
<b>EARNEST MONEY DEPOSIT</b>	:	Rs.1,40,000.00 (Rupees One Lakh Forty Thousand only)
<b>TENDER PREPARED BY</b>	:	E M Project Services A-615, Shastri Nagar, New Delhi - 110052

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT  
RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**TENDER SCHEDULE**

Validity Of Offer	:	90 Days
Cost Of Tender Document	:	Rs. 1,000/- D.D. Payable in Favour of PRINCIPAL, RAM LAL ANAND COLLEGE. separate D.D.
Estimated Cost of The Work	:	<b>Rs. 70,00,000.00</b> (Including Air Conditioning and Electrical component)
Earnest Money Deposit.	:	Rs.1,40,000.00 (Rupees One Lakh Forty thousand only) D.D. Payable in Favour of PRINCIPAL, RAM LAL ANAND COLLEGE. EMD of unsuccessful bidders will be returned. separate D.D.
Start Of Tender Download.	:	05.03.2025
Last Date of Tender Download.	:	19.03.2025 upto 2:00 PM
Last Date of Submission of Tender.	:	19.03.2025 upto 2:00 PM
Date Of Opening of Technical Bid.	:	20.03.2025 upto 2:30 PM
Defects Liability Period.	:	12 Months
Contract Time Period.	:	45 days from the date of commencement
Penalty For Delay.	:	Rs. 5,000/- Per Day Up to Maximum Of 10% Of the Cost of The Works.
Minimum Running Account Bill Value.	:	20 LAKHS
Retention Percentage.	:	5%
Performance Guarantee.	:	Before Issue of Letter to Start the Work, Contractor Shall Furnish a Performance Guarantee in the Form of A Bank Guarantee to the Tune of Five Percent (5%) of The Cost Of The Accepted Tender Amount. Bank Guarantee Will Be Kept Valid Up To 12 Months After Completion of The Works.  No mobilization Advance will be issued
Value of Work for Interim Certificate	:	Rs 20,00,000.00
Date of Commencement of work	:	The 10 <sup>th</sup> day after the date on which the Architect/Engineer-in-charge issues written orders to commence the work or the date of handing over the site whichever is later.
Contact Details for Clarification Related to Tender.	:	E-Mail: <a href="mailto:emprojectservices@gmail.com">emprojectservices@gmail.com</a>  Mob. -9810021003-8860565499

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT  
TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT  
RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**NOTICE INVITING TENDER**

To

Dear Sir/ Madam,

Online bids are invited from the registered contractors in appropriate category with C.P.W.D in composite category/M.E.S./Railways/DelhiPWDs/working contractor for Delhi University to submit your most competitive **ONLINE** tender through the Central Public Procurement (CPP) Public Procurement (CPP) portal web site [eProcurement System Government of India](http://eProcurement System Government of India) in TWO COVER SYSTEM (TECHNICAL & FINANCIAL) on or before the prescribed due date and time for E-TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, NEW DELHI..

**Manual Bids shall not be accepted, except for the supportive documents / instruments if any asked in this tender.**

The complete details of the tender items are available in the tender document, which can be downloaded from [www.rlacollege.edu.in](http://www.rlacollege.edu.in) and the Central Public Procurement (CPP) Public Procurement (CPP) portal web site [eProcurement System Government of India](http://eProcurement System Government of India).

The bids are to be submitted ON-LINE through [eProcurement System Government of India](http://eProcurement System Government of India) up to the due date and time of submission of tender. Any queries related to the tender document should be addressed to the tender inviting authority PRINCIPAL, RAM LAL ANAND COLLEGE.

Any queries relating to the process of online bid submission or queries relating to CPP Portal by bidders should be addressed to 24x7 CPP Portal Helpdesk by using the Toll-Free numbers given in the CPP website.

Dated: \_\_\_\_\_

Principal  
Ram Lal Anand College

**TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI**

**ELIGIBILITY CRITERIA**

The contractor shall submit the completion certificate for the following works and upload the same on website.

The similar work shall mean the work of composite nature as per CPWD definition of composite work.

1. The Contractor must have completed one work of 80 % of value of the estimated cost (Air Conditioning Work) in a single composite contract for a composite work as per definition of similar work

Or

The Contractor must have completed two works of 60 % of the value of estimated cost (Air Conditioning Work) in a single composite contract for a composite work as per definition of similar work

Or

The contractor must have completed three works of 40 % of the value of estimated cost (Air Conditioning Work) in a single composite contract for composite work as per definition of similar work

Similar Work of Air Conditioning component considered shall be Supplying and Installation of VRV/VRF system or Split Air Conditioning system.

**SPECIAL CONDITIONS OF CONTRACT**

1. All CPWD specifications as amended up to date shall be applicable.
2. The works are required to be completed within a period of Forty-Five Days from the date of commencement.
3. The contractor will prepare and submit a Phasing Plan with Bar Chart of all construction activities with targeted dates of completion and get it approved by the college authorities.

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

4. The completed Tender should accompany PAN number, GST number, email address, phone number and registered address of the Contractor.
5. CONTRACTORS are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their Tenders to the nature of the ground and subsoil(so far as practicable), the form and the nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain necessary information as to the risks, contingencies and other circumstances which may influence or affect their Tender. CONTRACTOR shall be deemed to have full knowledge of the site, whether he inspects it or not and no extra charge consequent to any misunderstanding or otherwise shall be allowed.
6. Submissions of the Tender by the CONTRACTOR implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors bearing on the execution of the works.
7. A CONTRACTOR should quote in figures as well as in words rate(s) quoted. The amount for each item should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as in words and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words. In case of figures the word "Rs." Should be written before the figure of rupees and the word "paise" should be written at the end. Unless the rate is in whole rupees and followed by the word "only" it should invariably be up to two places of decimals.
8. All rates shall be quoted on the Tender form only.
9. The Tender shall be accompanied by earnest money deposit of Rs.1,40,000.00 (Rupees One Lakh Forty Thousand only),in the form of a demand draft in favor of the **Principal, Ram Lal Anand College**.
10. On acceptance of the Tender, earnest money will be treated as a part of the security. In addition, contractor shall furnish performance guarantee in the form of an F.D.R or bank guarantee of 5% of the accepted Tender cost in favor of **Principal, Ram Lal Anand College**, before issue of letter to start the work
11. The CONTRACTOR, whose Tender is accepted, shall permit of the Principal, Ram Lal Anand College, New Delhi at the time of making any payments to him for works done under the contract to deduct towards security deposit such sum as will along with the amount to of earnest money already deposited amount to the following % of the cost of the work: -
  - 5% of the bill amount.
  - 50% of the security money will be released along with the final bill and the balance after expiry of the successful performance of the Defects Liability Period of one year without any interest.
12. Ram Lal Anand College, New Delhi will return the earnest money where applicable to every unsuccessful CONTRACTOR on return of all the Tender documents without any interest.
13. A CONTRACTOR shall submit the Tender which satisfies each condition laid down in this notice, failing which the Tender will be liable to be rejected.
14. Ram Lal Anand College, New Delhi does not bind itself to accept the lowest or any tender or to give any reasons for their decision.

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

15. Ram Lal Anand College, New Delhi reserves the right to accept the whole or any part of the Tender and CONTRACTOR shall be bound to perform the same at his quoted rates.
16. GST or any other tax applicable in respect of this contract shall be payable by the Contractor and Ram Lal Anand College will not entertain any claim whatsoever in respect to the same.
17. The cost of facilitating the issue of Fire clearance certificate and the required liaison will be under the scope of contractor and the final payment up to 20 % of contract value shall be released after receipt of FIRE NOC from Delhi Fire Department.
18. T.D.S. for GST/WCT etc. as applicable to the Union Territory of Delhi shall be deducted from the payments to be made to the Contractor and tax deduction certificate shall be issued by Ram Lal Anand College, New Delhi as per govt. guidelines.
19. The Contractor shall carry out the work in stages as to cause minimum disturbance to the Owner. The contractor shall be responsible for any damage to the equipment or structures, injury to the personnel during the progress of the work and he shall be liable to pay compensation as may be decided by the PRINCIPAL, RAM LAL ANAND COLLEGE. or his authorized representative in respect of such damages/injuries
20. All labour Employed by the Contractor shall be covered by the workmen's compensation act. Any death, injury, or mishap to the workmen of the Contractor will entirely be the Contractor's responsibility and the College, shall not be liable to pay any damages for the same.
21. The contractor shall take adequate safety precautions to avoid any accident etc. on site. The Contractor shall erect proper barricades, signboards, lights, etc. and shall provide safety belts, safety shoes, head gears (helmet I.S.I standard) and shall be fully responsible for any criminal & civil liabilities. All safety arrangements are to be made by contractor at his own cost.
22. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 2 months from the date of commencement of work at site.
23. Rates quoted shall be applicable equally to all floors and shall include all lifts and leads. No extras on this account will be payable.
24. The contractor shall provide training for operation and maintenance of Equipment's to the Owners representatives free of cost, where required.
25. Rates quoted by the contractor shall be inclusive of all items of work mentioned in the BOQ and Any work, supplies or services which might have not been specifically mentioned in the BOQ but are necessary for entire completion of the work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time schedule specified. Rates quoted shall be deemed to include such elements of labour and materials

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

necessary to complete the items of work in all respects.

26. Contractor shall submit only computerized Bills supported with computerized measurement sheets in A4 size hard copy prints and soft copy in Microsoft Excel Format. Manual Handwritten bills or measurement sheets will not be accepted.
27. PRINCIPAL, RAM LAL ANAND COLLEGE, reserves the right to decrease the items of work, change the specifications of works or remove the entire section of work as may be deemed necessary to finish the works within the available budget.

### GENERAL CONDITIONS OF CONTRACT

Definitions: the contract document consists of the agreement, the special and general conditions of the contract, specifications and bills of quantities including all modifications and the contract drawings prepared by the Architect from time to time

1. The site: shall mean the site of contract work.
2. Bidder / Contractor: Shall mean the person or business that agrees to conduct the contract work under the terms of the contract.
3. Sub-Contractor: includes those who have a direct contract with the Contractor.
4. Notice: written notice shall be deemed to have been served if delivered in person to a member of the Contractors firm.
5. Owner: PRINCIPAL, RAM LAL ANANDCOLLEGE.
6. Work: the term “work” includes both labour and material of the Contractor/Sub-Contractor.
7. Time limits: time limits stated in the contract are the essence of the contract.
8. Law: law of the place of work shall govern the construction under this contract.
9. Virtual completion: date of virtual completion is the date when the construction is sufficiently completed in accordance with the contract documents, including

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

modifications, if any.

10. Contract documents: shall consist of the following:

- a) The agreement.
- b) The General and Special conditions of contract.
- c) The Bill of Quantities.
- d) The drawings & specifications.
- e) The approved makes.

TYPE OF CONTRACT

It is Percentage rate c o n t r a c t . The Contractor shall be paid for the actual quantity and quality of work done, as measured at site on the rates quoted by him, based on a payment certificate issued by the Architect/Engineer-In charge.

SCHEDULE OF QUANTITIES

Schedules of quantities given in the contract bill are provisional and are meant to indicate the intent of the work and to provide a uniform basis for the contract. The Owner reserves the right to increase or decrease any of the quantities or to totally omit any of them. The contractor shall be bound to carry out the same without claiming any extras.

The Engineer In-Charge will carry out regular inspections to check the quality and quantity of the work and shall not be responsible for the Contractors failure to carry out the construction work in accordance with the contract documents. During his site inspections, the Architect shall inform the Owner about progress of work, defects, and deficiencies if any.

The Engineer In-Charge may in his absolute discretion from time to time, issue further drawings, details, written instructions, written decisions and written explanations regarding: -

1. Variation or modification of the design
2. Quality or quantity of work, addition/alteration/omissions and substitutions of any work
3. Any discrepancy and divergence between drawings and specifications.
4. Removal and re-erection of any work executed by the Contractor
5. Dismissal of any person employed on the site, who in the opinion of the Architect is not fit for the job.
6. Opening for inspection any work-covered up
7. Amending and making good any defects under defects liability period
8. Removal from site, any materials brought by the Contractor, which in the opinion of the Architect is not up to the desired standard.
9. Delay and extension of time
10. Postponement of any work



TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

ENGINEERINCHARGE

Engineer In-Charge shall mean the person approved by the College.

TAXES

GST or any other tax applicable in respect of this contract shall be payable by the Contractor and Ram Lal Anand College will not entertain any claim whatsoever in respect of the same

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**STATUTORY OBLIGATIONS**

The Contractor shall comply with and give all notices required by any Govt. authority and instrument, rule or order made under an act of parliament or state assembly or any regulation or byelaw of the local body, relating to the work and indemnify the Owner against any such liability arising out of noncompliance of the law.

By way of illustration of various Acts/statutory compliances as stated above, the following Acts as amended from time to time shall be complied with by the CONTRACTOR:

- a) Employee's Provident Fund Act 1952
- b) Contract Labour Act (Regulations and Abolition 1970)
- c) Minimum Wages Act 1948
- d) Payment of Wages Act 1936
- e) Workmen Compensation Act 1923
- f) Factories Act 1948
- g) Apprenticeship Act 1961

**MEASUREMENT OF WORK**

Unless otherwise specified, measurement of work shall be carried from the works executed. The measurements for preparing Bills will be taken jointly by the CONTRACTOR's representative and the Engineer In charge. In measurement of work as stated above, the CONTRACTOR shall certify that the work has been carried out strictly as per the drawings, specifications, and item of work in terms of the agreement. Such a certificate shall require Engineer In-Charge's endorsement for payment.

In the event of any dispute regarding the measurement of the work carried out, the decision of the OWNER shall be final and binding on the CONTRACTOR.

In the case of site measurements, should the CONTRACTOR not attend or neglect or fail to send his representative for taking joint measurements, the measurements taken by the Engineer in Charge shall be deemed to be the correct measurement of work and shall be binding on the CONTRACTOR.

**REJECTION**

If the Contract work or any portion thereof, at any time, is found to be defective or fails to fulfill the requirements of the agreement, the Engineer In-Charge shall give the CONTRACTOR notice in writing setting-forth particulars of such defects or failure and the CONTRACTOR shall forthwith make good the defects or replace or alter the same to make it comply with the requirements of the agreement.

Any materials, equipment, etc. brought to the site and found to be not in accordance with the agreement, shall be rejected by the Engineer In-Charge and the CONTRACTOR shall remove the materials from the site within the period specified by the Engineer In-Charge.

The CONTRACTOR shall not be entitled to any extension of time or extra cost for rejection as per above.

**CERTIFICATES OF PAYMENTS**

**TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI**

Engineer In charge shall issue an interim certificate of payment stating the amount due to the Contractor from the Owner and the Contractor shall be entitled to payment thereof within a period of two week after issue of the certificate. From the total amount, certified deduction shall be made towards payments already made, security deposit, TDS etc.as applicable to Delhi or any other tax applicable at the time of making payment.

All running payments shall be regarded as payment by way of advance against final payment only and not as payment for the work completed till the date of final payment. The running payment made shall not preclude the liability of the CONTRACTOR to finally complete the work strictly in accordance with the specifications and drawings, if required by re- constructing faulty work

**CLAIM FOR EXTRA**

In the case of extra item(s) (items that are completely new, and are in addition to the items contained in the contract), the contractor will submit rates, supported by rate analysis, for the work and the engineer-in-charge shall within one month of the receipt of the rates supported by rate analysis, after giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined.

**DEDUCTION FOR UNCORRECTED WORK**

If the Engineer In-charge deems it in-expedient to correct work damaged or not done in accordance with the contract, an equitable deduction from the contract price shall be made thereof.

**FLUCTUATIONS**

The Contractor shall not claim any extras for fluctuation of price and the contract price shall not be subjected to any rise or fall in prices.

**POSSESSION BEFORE VIRTUAL COMPLETION**

If the Owner, with the consent of the Contractor takes possession of part of the building for handing over to the finishing Contractor, such part of the building shall not be deemed to be virtually completed. Virtual completion of such part would occur only on completion of the last part of the structure.

**TIME EXTENSION**

Upon it becoming reasonably apparent that the progress of the work is delayed, the Contractor shall forthwith give written notice of the cause of the delay to the Principal, Ram Lal Anand college to enable the Principal to take a proper decision in the matter.

**INSPECTION AND TEST**

- i. The CONTRACTOR shall ensure inspection and test of all materials and work at his cost through his ENGINEER IN CHARGE and other technical staff either at site or through any approved laboratory.
- ii. The CONTRACTOR shall ensure proper supervision and inspection during the progress

**TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI**

of work at site.

- iii. All materials and work, whether at the site or in the CONTRACTOR's /Sub- Contractor's premises shall be subject to inspection and test by the ENGINEER IN CHARGE. The CONTRACTOR/ his Sub-Contractor shall provide all facilities free of cost to the ENGINEER IN CHARGE including all labor, materials, tools, tackles, instruments, appliances, etc. to enable the ENGINEER IN CHARGE to carry out inspection and/or test.
- iv. All test certificates shall be subject to certification by the ENGINEER IN CHARGE.
- v. The CONTRACTOR shall submit to the ENGINEER IN CHARGE three copies of all inspection/ test certificates.
- vi. The CONTRACTOR shall not be entitled to any claim for extra time or cost due to any delay in carrying out inspection and testing or re-inspection and re-testing if so decided by the ENGINEER IN CHARGE The CONTRACTOR shall take adequate steps to rectify the defects or to replace such materials and work which have failed during inspection /testing

**RESPONISBILITY OF COMPLETION**

Any work, supplies or services which might not have been specifically mentioned in the specifications, schedule of items or drawings but are necessary for entire completion of the contract work shall be executed / provided/ rendered by the CONTRACTOR without any Extra cost and within the time specified schedule. Rates quoted shall be deemed to include such elements of labor and materials necessary to complete the items of work in all respects.

**DAMAGES FOR NON-COMPLETION**

If the Contractor fails to complete the works by the date specified or within any extended time granted to him, the Contractor shall allow the Owner to deduct a sum calculated at the agreed liquidated damages, from the money due to him for the period the work remained incomplete, subject to a maximum amount of 10% of the contract value.

**LIQUIDATED DAMAGES FOR DELAY**

If the CONTRACTOR fails to complete the work/item (s) of work in all respects and hand over the same to the OWNER within the time stipulated the CONTRACTOR, without prejudice to any other right or remedy of the OWNER on account of such breach, be liable to pay the OWNER liquidated damages at the rate of 1% (one percent) of the total contract price for delay of every week or part thereof.

The total amount of liquidated damages shall be limited to 10% (Ten percent) of the total contract price.

The above provisions shall not apply in cases of delay for which the CONTRACTOR is entitled to extension of completion time

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

VIRTUAL COMPLETION CERTIFICATE AND DEFECTS LIABILITY PERIOD

When, in the opinion of the Architect/Engineer-in-charge the works are practically completed, he shall forthwith issue a certificate to that effect, that date will be taken as the date of virtual completion.

The Architect/Engineer-in-charge shall prepare a schedule of defects, not later than 14 days after the expiry of the defects liability period. The Contractor shall within a reasonable period after receipt of schedule of defects shall rectify the same, failing which the Architect/Engineer-in-charge will make suitable deductions from the contract sum.

MAINTENANCE GUARANTEE / DEFECTS LIABILITY PERIOD

Maintenance Guarantee period will be 12 months from the actual date of completion and handling over to the OWNER.

- a) The CONTRACTOR guarantees that within the maintenance guarantee period, the contract work shall not show any signs of defects, cracks, settlements, disfigurements, shrinkage, leakage, dampness or any other defects.
- b) The CONTRACTOR shall maintain and satisfactorily execute, at his own cost, all such works of repair, amendment, re-construction, rectification, replacement and any other work to make good the faulty work as stated in Article (a) during the maintenance guarantee period.
- c) The CONTRACTOR shall, if required by the ENGINEER IN CHARGE, search for the causes of any defects, imperfection or fault under the direction of the ENGINEER IN CHARGE. The cost of such search shall be borne by the CONTRACTOR.
- d) At intervals specified by the ENGINEER IN CHARGE the CONTRACTOR, along with the ENGINEER IN CHARGE, shall inspect the contract work to satisfy himself that no defects have cropped up in the contract work. Should there be any signs of defects, the CONTRACTOR shall take immediate steps to rectify the same, failing which; the ENGINEER IN CHARGE may get the defects rectified at the risk and cost of the CONTRACTOR.
- e) At the end of the maintenance guarantee period, the CONTRACTOR, along with the ENGINEER IN CHARGE, shall carry out final inspection of the contract work to prove that no defects had appeared in the contract work or that all defects which appeared in the contract work have been rectified to the entire satisfaction of the ENGINEER IN CHARGE. If during the final inspection it is found that the defects still remain in the contract work, the period of maintenance guarantee shall be extended at the discretion of the ENGINEER IN CHARGE and the CONTRACTOR shall be liable to make good the defects and be responsible for the maintenance of the work till the defects have been fully rectified.
- f) Upon successful completion of the maintenance guarantee period the OWNER shall issue final acceptance certificate to the CONTRACTOR

PAYMENT WITH HELD

The Architect/Engineer In-charge may withhold or on account of subsequently discovered evidence nullify the whole or part of any certificate to such an extent as may be necessary in

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

his reasonable opinion to protect the Owner from loss, for defective work, non- payment to Subcontractors, or other claims connected to this work.

INJURY TO PERSONS

The Contractor shall indemnify the Owner against any liability, loss, claim or proceedings whatsoever arising under any statutory or common law in respect of personal injury to or the death of any person, whomsoever arising out of or during or caused by carrying out the work.

INSURANCE

Without prejudice to his ability to indemnify the Owner, the Contractor and his Subcontractors shall maintain such insurance as are necessary to cover the liability of the Contractor and the sub-Contractors.

INSURANCE AGAINST FIRE

The Contractor shall in the joint name of the Owner and the Contractor, insure against loss or damage due to fire, earthquakes and riots.

COORDINATION OF WORK

Contractor shall extend complete coordination to other agencies i.e. air-conditioning, firefighting and interiors working on the same site.

LABOUR

Contractor shall not employ child labour under 14 years of age and if female workers are employed he should make provision for safeguarding the small children to keep them clear of the site. All labour shall wear safety helmets and shoes to protect them from injury.

SAFTEY

In respect of all labour directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall at his own expense arrange for the safety provisions as per C.P.W.D. Safety Code framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangement and provide necessary facilities as aforesaid, he shall be liable to pay a penalty of Rs.200/- for each default and in addition, the Engineer-in- Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

ANTIQUITIES All fossils and other objects of interest or value, which may be found on the site or in excavating the same during progress of the work, shall become a property of the Owner. The Contractor shall carefully take out and preserve all such objects and hand them over to the Owner, through the Architect/Engineer-in-charge .

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

GUARANTEE

Besides guarantees required elsewhere, the Contractor shall guarantee the works in general for one year after completion of defects liability period.

TREESANDSHRUBS

The Contractor shall protect trees and shrubs designated by the Owner/Architect/Engineer-In-Charge from damage during the course of work

PERFORMANCE GUARANTEE

In addition to the Security Deposit the Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Five percent (5%) of the cost of the tender amount, which will be kept valid up to 12 months after completion of the work.

TERMINATION OF CONTRACT

If the CONTRACTOR violates the Agreement or shall neglect to execute the work with due diligence or expedition or shall refuse or neglect to comply with any reasonable directions, instructions or orders given to him in writing by the Architect/Engineer In-Charge in connection with the work or shall contravene or breach any provisions of the Agreement, the OWNER may give notice in writing to the CONTRACTOR to make good the failure, neglect or contravention complained of or cure that breach within a period of 30 (thirty) days of receiving such notice and in default of the compliance with the said notice, the OWNER without prejudice to his rights as below may rescind or terminate the Agreement stating therein the effective date of termination, holding the CONTRACTOR liable for the damages that the OWNER may sustain in this behalf.

Without prejudice to any of the rights or remedies under this contract, if the contractor dies, the Owner shall have the option of terminating the contract without compensation to the CONTRACTOR.

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**TENDER ACCEPTANCE (OFFER) LETTER**

TO,

PRINCIPAL, RAM LAL ANAND COLLEGE.  
Benito Juarez Road, New Delhi- 110 021

Subject: Acceptance in respect of terms and conditions of tender document for E-TENDER SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, NEW DELHI..

Dear Sir,

1. I / We have downloaded the tender document(s) for the above-mentioned tender from the website [www.rlacollege.edu.in /eProcurement System Government of India](http://www.rlacollege.edu.in/eProcurementSystemGovernmentofIndia).
2. I / We hereby certify that I / We have read every page of the tender document including all terms/conditions/drawings/annexures/forms/appendixes/paras etc. which are part of the contract agreement, and I / We agree to accept all the terms and conditions contained therein.
3. The corrigendum(s) issued from time to time by your organisation has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept all the terms and conditions of above-mentioned tender document and corrigendum(s) as applicable.
5. In case any provisions of this letter are found violated, then PRINCIPAL, RAM LAL ANAND COLLEGE shall without prejudice to any other right or remedy be at liberty to reject my/our bid including the forfeiture of EMD.
6. I / We hereby certify that all statements made, and information supplied in the enclosed appendix, annexure, forms/paras etc. furnished herewith are true and correct.
7. I / We have furnished all the information and details necessary for demonstrating our qualification and have no further critical information to supply.



TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

8. I / We understand and accept that PRINCIPAL, RAM LAL ANAND COLLEGE is not bound to accept the lowest bid or any of the bids submitted by the bidders or to give any reasons for their decision.
9. I/We understand and accept that all taxes including GST shall be payable by the bidder/contractor and PRINCIPAL, RAM LAL ANAND COLLEGE will not entertain any claim whatsoever in respect of taxes.
10. I/We understand and accept that PRINCIPAL, RAM LAL ANAND COLLEGE reserves the right of accepting the whole or any part of the tender and the bidder/contractor shall be bound to perform the same at quoted rates.
11. I / We understand and accept that in case any information provided by me/us is found to be false/ incorrect, then PRINCIPAL, RAM LAL ANAND COLLEGE shall be at liberty to reject our bid and without prejudice to any other right or remedy, be at liberty to forfeit the EMD absolutely and I / We shall not have any claim against PRINCIPAL, RAM LAL ANAND COLLEGE.
12. A sum of Rs.1,40,000.00 (Rupees One Lakh Forty Thousand Fifty Six Thousand only)-(Bank Draft No.....Dated.....) is here by forwarded in Bank Draft in the favor of Principal, Ram Lal Anand College, New Delhi as earnest money.
13. I/We understand that If I/we fail to keep the Tender open as aforesaid or make any modifications in the terms and conditions of the Tender which are not acceptable to Principal, Ram Lal Anand College, New Delhi. I/We agree that Principal, Ram Lal Anand College, New Delhi, shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Should this Tender be accepted, I/we hereby agree to abide by and fulfill all the terms, conditions and provisions of the aforesaid documents

Yours Faithfully,

Signature of Bidder:

Name:

Designation:

Stamp of the Bidder:

**TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI**

**BIDDER'S DETAILS**

S.NO.	DESCRIPTION	DETAIL
1	Name of Company	
2	Address of Company	
3	PAN no.	
4	GSTN no.	
5	Telephone Number	
6	Email Address	
7	Name of Company Owner / Director / Partner	
8	Address of Company Owner / Director / Partner	
9	Telephone Number of Company Owner / Director/ Partner	
<p>I/We hereby declare that the information furnished above is true and correct. In case the above information is found incorrect at any stage, the PRINCIPAL, RAM LAL ANAND COLLEGE may take appropriate action as warranted.</p>		
Name:		
Designation:		
Stamp & Signatures:		
Place:		
Date:		

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**CHECKLIST OF DOCUMENTS TO BE PLACED IN THE TECHNICAL BID**

S.NO.	DESCRIPTION	CHECK
1)	: COMPANY REGISTRATION DETAILS	<input type="checkbox"/>
2)	: COMPANY PROFILE	<input type="checkbox"/>
3)	: GST REGISTRATION CERTIFICATE COPY	<input type="checkbox"/>
4)	: PAN CARD COPY	<input type="checkbox"/>
5)	: PF REGISTRATION CERTIFICATE	<input type="checkbox"/>
8)	: VALID COMPLETION CERTIFICATES	<input type="checkbox"/>
10)	: TENDER FEE OF RS. 1000 IN THE FORM OF A DEMAND DRAFT IN THE NAME OF PRINCIPAL, RAM LAL ANAND COLLEGE. <i>ORIGINAL DEMAND DRAFT TO BE SUBMITTED WITH THE TECHNICAL BID TO THE OFFICE OF THE PRINCIPAL AND SCANNED COPY TO BE UPLOADED ALONG WITH THE TENDER.</i>	<input type="checkbox"/>
11)	: EMD FEE OF RS. 1,40,000/- IN THE FORM OF A DEMAND DRAFT IN THE NAME OF PRINCIPAL, RAM LAL ANAND COLLEGE. ORIGINAL DEMAND DRAFT TO BE SUBMITTED WITH THE TECHNICAL BID TO THE OFFICE OF THE PRINCIPAL AND SCANNED COPY TO BE UPLOADED ALONG WITH THE TENDER.	<input type="checkbox"/>

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

<b>1</b>	<b>Terms and Conditions</b>
1	The work shall have to be conducted as per CPWD specifications as amended up to date.
2	The contractor shall have to remove the debris/malwa of the work executed at site.
3	The contractor shall be responsible for the safety of worker employed by contractor and the occupants of the building at site.
4	The contractor shall provide all required PPE for the workers deployed in connection with this work.
5	All the required T & P required to complete the work in all respects will have to be provided by the contractor.
6	All the scaffolding if required shall have to be arranged by the contractor.
7	The contractor shall ensure that no damage is caused to the existing installation/Building.
8	After completion of the work, all the existing finishes of the building will be restored to original condition.
9	The work has to be executed in the college operational building and the contractor will have to plan the work so that no inconvenience is caused to the college operation and activities.
10	No Claim for the idle labour shall be entertained on any account.
11	The work has to be completed within one month of award of work
12	The contractor shall submit the execution plan within three days of the award of work.
13	The contractor shall submit the original documents and bills for the material brought and used/installed at site for verification and record.
14	The College administration shall get the bills of the contractor verified from third party before payment.
15	All the warranty cards and the catalogue and any operation manual as applicable be provided before claiming payment for the equipment and material brought at site.
16	The contractor will be responsible for the watch and ward of the material brought at site.
17	Any material rejected shall have to be removed from the site immediately without any delay.
18	The color coding of the wiring shall have to be maintained.
19	No joints in the wiring shall be permitted to be used.
20	The drainage connection for Air Conditioning system will have to be provided for drainage of water from indoor units.
21	GA drawing for Electrical panels will have to be submitted for approval before ordering Electrical panel.
22	The Distribution boards and MCBs installed in these distribution boards shall be of the same make.
23	The Cable end boxes, and loose wire boxes will have to be got approved before installation and should be suitable for accommodating the cables and loose wires.
24	All the wiring in Distribution boards shall be neatly dressed.

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

25	The chases required for AC and electrical work shall be done with chase cutting machine only. No manual chisel uses for chase cutting shall be permitted.
26	All the routes shall be marked with thread before starting work at site.
27	Refrigerant pipes shall be grooved and shall be of the same quality as supplied as standard length by OEM of Split AC units.
28	All the crimping of cables shall be done with Hydraulic crimping Machine/Plier.
29	All the material for which makes are not mentioned shall have to be got approved from college authority

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE  
AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL  
ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

**MAKE OF MATERIAL FOR AIR CONDITIONING AND ELECTRICAL  
SYSTEM**

<b>S. NO.</b>	<b>ITEM</b>	<b>MAKES</b>
1.	Split Air Conditioning Units	Hitachi, Carrier-Aircon Daikin, Voltas, Bluestar.
2.	CPVC pipe	-Surya, Parkash , AKG, Ashirwad
3.	Electrical PVC Pipe	: Surya, AKG, BEC, Setia
4.	Electrical Wires	: Havell,s, RR Kabel, National , Polycab
5.	Electrical Armoured Cables	: Polycab. Havell;s , Finolex
6.	Modular Sheet and Sockets	: ABB, Schneider, L &T , Siemens
7.	MCB/MCB DB's	: L&T , ABB, Schneider, Siemens
8.	MCCB	: L&T, Hager, ABB, Schneider, Siemens
9.	GI boxes	: Same as modular fittings
10.	Brass compression glands	: Comet, Asian, Johnson and Johnson
11.	Thimbles and Lugs	: Dowell's , Asian

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

### SCHEDULE OF WORK

Sl.No.	Item Description	Quantity	Units	RATE
1	<b>Sub-Head-A-Electrical Work</b>			
1.1	<b>Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.</b>			
1.01	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	321.80	Mtrs	
1.02	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	958.45	Mtrs	
2	Suppsflying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 25A modular socket outlet and 25 A modular SP MCB "C" curve including connections, painting etc. as required.	70.00	Nos	
3	<b>Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of CRCA powder coated sheet steel, dust protected, duly powder painted , inclusive of, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs- and Incomer MCCB Ready to use DBs - Provided with insulated vertical phase bus-bars   neutral bar/s with shroud/s   earth bar/s   color-coded interconnecting wire set   cable ties   blanking plates and circuit identification labels (but without MCCBs and incomer) with provision for Incomer MCCB and outgoing TP/SP MCB as required. (LT/ABB/Schneider make)</b>			
3.01	4-way (4+12) way	3.00	Nos	
4	<b>Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note: Vertical type MCB TPDB is normally used where 3 phase outlets are required.)</b>			
4.01	4 way (4 + 12), Double door	9.00	Nos	
5	<b>Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubical panel board including drilling holes in cubicle panel, making connections etc. as required</b>			
5.01	125-amp 16KA, TPMCCB	3.00	Nos	

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

6	<b>Supplying and fixing 5amp to 32amp rating 240/415V, 10KA C curve MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required</b>			
6.01	Single Pole	108.00	Nos	
7	Supplying and fixing the following rating 240/415V, 10KA C curve MCB suitable for Inductive load of following 4poles -63 Amps in the existing MCB DB complete with connections, testing and commissioning etc. as required	9.00	Nos	
8	Supplying and fixing following rating 240/415V, 10KA C curve MCB suitable for inductive load of following 3 poles -63 Amps in the existing MCB DB complete with connections, testing and commissioning etc. as required	12.00	Nos	
9	Supplying and fixing Cable End Box for termination of incomer cables suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required	12.00	Nos	
9.01	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required	12.00	Nos	
10	<b>Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the same trench etc. as required</b>			
10.01	Above 35 sq mm and up to 95 sq mm	52.00	Mtrs	
11	<b>Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the same trench etc. as required</b>			
11.01	Above 35 sq mm and up to 95 sq mm	114.00	Mtrs	
12	<b>Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required</b>			
12.01	Above 35 sq mm and up to 95 sq mm	18.40	Mtrs	
13	<b>Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required</b>			
13.01	Up to 35 sq mm with 1mm thick saddle	430.00	Mtrs	
13.02	Above 35 sq mm and up to 95 sq mm	12.00	Mtrs	



TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

14	<b>Supplying and making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE Aluminium conductor cable of 1.1 KV grade as required</b>			
14.01	3.5 x 95 sq mm (45mm)	8.00	Nos	
14.02	4 x 25 sq mm (28mm)	2.00	Nos	
14.03	4x16 sq mm (28mm)	16.00	Nos	
15	Providing and Fixing 25mm x 5mm G. I. strip on surface or in recess for connections etc. as required	5.00	Mtrs	
16	Providing and Fixing 6 SWG G. I. Wire on surface or in recess for loop earthing etc. as required	1300.00	Mtrs	
17	<b>Supplying, installation, testing &amp; commissioning of cubicle type LT panel suitable for 415 V, 3 Phase, 4 Wire 50 Hz AC supply system having front surface area 1.5 sq. mtr (Approx.) fabricated in compartmentalized (preferably) design from CRCA sheet steel of 2 mm thick for frame work and covers, 3 mm thick for gland, plates i/c cleaning &amp; finishing complete with 7 tank process for powder coating in approved shade, having 630 Amp capacity TPN Aluminium alloy bus bars of high conductivity, DMC / SMC bus bars of high conductivity, DMC/ SMC bus bar supports, with required short circuit withstand capacity and the panel shall be wall mounted type with 4 Nos. mounting arrangement , entire panel shall have a common copper earth bar of size 25 mm x 5 mm at the rear with 2 Nos. earth stud, solid connections from main bus bar to switch gears with required size of Al. bus bars and control wiring with 2.5 .sq. mm. PVC insulated copper conductor S/C cable, cable alleys, cable gland plates in two half, i/c providing following switch gears :- Minimum size of panel-1.5 sq mts front area. Minimum Depth of panel-300mm 1) TP MCCB with Neutral strips -Incomer -400 Amps. Rating with 50 kA breaking capacity-1 nos. 2) TP MCCB with Neutral strips -Outgoing -160 Amps. Rating with minimum 25 kA breaking capacity-4 nos. Bus Bars: TPN Aluminium bus bars of minimum of 630 Amps capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bar cross section, size supports &amp; their spacing etc. for withstanding required fault level.</b>			
17.01	(All connections from Bus -Bar to Switchgears shall be with solid aluminum strips)	1.00	Job	
18	<b>Supply of following sizes 1.1 kV grade LT XLPE insulated, sheathed and armoured cable with Aluminium conductor</b>			
18.01	3.5x95 sq. mm Size	220.00	Mtrs	
18.02	4x25 sq. mm size	70.00	Mtrs	

TENDER FOR SUPPLYING, INSTALLATION, TESTING AND COMMISSIONING OF SPLIT TYPE AIR-CONDITIONING SYSTEM AND MISCELLANEOUS ELECTRICAL WORKS AT RAM LAL ANAND COLLEGE, (UNIVERSITY OF DELHI), NEW DELHI

18.03	4x16 sq.mm size	360.00	Mtrs	
19	<b>Sub-Head-B-AIR CONDITIONING</b>			
19.01	<p>Air conditioning work with following specifications and capacity to include Supply, Installation, Testing and Commissioning of outdoor &amp; indoor units. The outdoor units are to be installed on M.S. frame fixed on the outside. The refrigerant and condensate pipes with proper/ suitable insulation to be laid concealed/ surface with proper clamps, etc. Any expenses involved in clearance that may have to be taken &amp; shall be included in the rate. The work includes all necessary civil, minor carpentry works. The brands to be HITACHI, CARRIER-AIRCON DAIKIN, VOLTAS, BLUESTAR.</p> <p>2.00 TR Inverter split AC with following accessories and features:</p> <ul style="list-style-type: none"> <li>a) Wall mount type</li> <li>b) Indoor and Outdoor unit</li> <li>c) Copper Condenser</li> <li>d) Copper connecting pipes with standard 3 Meters length</li> <li>e) Copper evaporator coil</li> <li>f) Remote control</li> <li>g) Energy Efficiency Rating-5 Star</li> <li>h) ISEER (Indian Seasonal Energy Efficiency Ratio) -4.7 or better</li> <li>i) Voltage rating- Single Phase -230 Volts</li> <li>j) Standard warranty period-12 Months</li> <li>k) Compressor Warranty -5 years or more</li> <li>l) Warranty type -Onsite</li> <li>m) All mounting Accessories including mounting of outdoor units</li> <li>n) Stabilizer free operation</li> </ul>	70.00	Nos	
19.02	<p>Supplying and laying of refrigerant Piping: All refrigerant Pipes suitable for R- 410/R-32/other applicable refrigerant with nitrite insulations to be laid along Walls / Ceiling including chasing of walls and making them NEAT. The cost to be inclusive of insulation etc. The pipes are NOT to rest on FALSE ceiling. They are to be laid either by hanging from the ceiling with proper support or fixed on the walls/ceiling with proper clamps . This is beyond the standard length-supplied with Split Units</p>	210.00	Mtrs	
19.03	<p>Providing, Fixing and Laying of 25mm dia CPVC pipe- for drainage of water from indoor units to Ground etc. complete as required</p>	400.00	Mtrs	
<b>Total in Figures</b>				