

**TITLE : TENDER FOR SITC OF 1.5 TR
3-STAR NON-INVERTER AC
AT SRI GURU TEGH
BAHADUR KHALSA
COLLEGE, UNIVERSITY OF
DELHI, DELHI 110007**

**OWNER : PRINCIPAL, SRI GURU TEGH BAHADUR
KHALSA COLLEGE**

ADDRESS : UNIVERSITY OF DELHI, DELHI 110007 (INDIA)

WEBSITE : <https://sgtbkhapsadu.ac.in/>

TYPE OF TENDER : TWO COVER SYSTEM

ESTIMATED COST OF WORK : RS. 14.50 LAKHS

TENDER FEE : RUPEES ONE THOUSAND ONLY

DATE OF START : 26-05-2022

LAST DATE OF SUBMISSION OF TECHNICAL BID DOCUMENT : 06-06-2022

EARNEST MONEY DEPOSIT : Rs.29,000/-

**TENDER PREPARED BY : RANJIT SINGH & ASSOCIATES, 1206 SURYA KIRAN BUILDING,
19 K.G. MARG, NEW DELHI 110001. PH. 011-43560879.
RSA1206@MSN.COM**

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TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA COLLEGE, UNIVERSITY OF DELHI, DELHI 110007

TENDER SCHEDULE		
Validity Of Offer	:	90 Days
Cost Of Tender Document	:	Rs. 1,000
Estimated Cost of The Work	:	Rs. 14.50 lakhs
Earnest Money Deposit.	:	Rs.29,000/- Payable by D.D. In Favour Of PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE. EMD of unsuccessful bidders will be returned.
Start Of Tender Download.	:	Thursday, 26 May 2022
Last Date of Tender Download.	:	Sunday, 05 June 2022
Last Date of Submission of Tender.	:	06-06-2022 At 3:00 Pm
Date Of Opening of Technical Bid.	:	07-06-2022 At 3:00 Pm
Defects Liability Period.	:	24 Months
Contract Time Period.	:	3 Months
Penalty For Delay.	:	Rs. 5,000/- Per Day Up to Maximum Of 10% Of the Cost of The Works.
Minimum Running Account Bill Value.	:	4 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 24 Months After Completion of The Works.
Contact Details for Clarification Related to Tender.	:	Email: rsa1206@msn.com Phone. 011-43560879

ELIGIBILITY CRITERIA

S. NO.	DESCRIPTION
1)	: BIDDER SHOULD HAVE COMPLETED THREE SIMILAR WORKS EACH COSTING NOT LESS THAN RUPEES 6 LAKHS
	OR
	BIDDER SHOULD HAVE COMPLETED TWO SIMILAR WORKS EACH COSTING NOT LESS THAN RUPEES 9 LAKHS
	OR
	BIDDER SHOULD HAVE COMPLETED ONE SIMILAR WORKS EACH COSTING NOT LESS THAN RUPEES 12 LAKHS
2)	: BIDDER SHOULD HAVE AVERAGE ANNUAL TURNOVER (GROSS) OF 7.5 LAKHS
3)	: BIDDER SHOULD HAVE A SOLVENCY OF RUPEES 6 LAKHS
4)	: BIDDER SHOULD SUBMIT AN EMD OF RUPEES Rs.29,000/-.
5)	: BIDDER SHOULD BE A REGISTERED VENDOR WITH OEM. VALID AUTHORISATION CERTIFICATE FROM OEM TO BID FOR THIS TENDER SHOULD BE ENCLOSED.

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)	: TURNOVER CERTIFICATE (ANNEXURE -1)	<input type="checkbox"/>
6)	: SOLVENCY CERTIFICATE	<input type="checkbox"/>
7)	: VALID COMPLETION CERTIFICATES	<input type="checkbox"/>
8)	: LETTER OF AUTHORISATION FROM OEM	<input type="checkbox"/>
9)	: TENDER FEE OF RS. 1000 IN THE FORM OF A DEMAND DRAFT IN THE NAME OF PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE. <i>ORIGINAL DEMAND DRAFT TO BE SUBMITTED WITH THE TECHNICAL BID TO THE OFFICE OF THE PRINCIPAL.</i>	<input type="checkbox"/>
10)	: EMD FEE OF RS. Rs.29,000/- IN THE FORM OF A DEMAND DRAFT IN THE NAME OF PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE. <i>ORIGINAL DEMAND DRAFT TO BE SUBMITTED WITH THE TECHNICAL BID TO THE OFFICE OF THE PRINCIPAL.</i>	<input type="checkbox"/>

SUBMISSION OF TECHNICAL BID & FINANCIAL BID

- 1) **ORIGINAL TECHNICAL BID, FINANCIAL BID, EMD & TENDER FEE SHOULD BE SUBMITTED TO THE OFFICE OF PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE ON OR BEFORE 3:00 PM ON 06-06-2022. THE TECHNICAL BID, FINANCIAL BID, EMD & TENDER FEE PLACED IN THREE SEPARATE ENVELOPES WITH ALL THREE ENVELOPES PLACED IN ONE ENVELOP LABELLED AS “TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA COLLEGE, UNIVERSITY OF DELHI, DELHI 110007”**

NOTICE INVITING TENDER

To

All The Eligible Bidders,

Dear Sir/ Madam,

You are invited to submit your most competitive bids in TWO COVER SYSTEM (TECHNICAL & FINANCIAL) on or before the prescribed due date and time for TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA COLLEGE, UNIVERSITY OF DELHI, DELHI 110007.

Bidders are requested to submit original hardcopy of bids on or before the tender due date mentioned in the tender document. The complete details of the tender items are available in the tender document, which can be downloaded from <https://sgtbkhalsadu.ac.in/> [ePublishing System, Government of India \(eprocure.gov.in\)](http://eProcure.gov.in)

Any queries related to the tender document should be addressed to the tender inviting authority PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE.

Sd/-

PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE

TENDER ACCEPTANCE (OFFER) LETTER

TO,

PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE
UNIVERSITY OF DELHI, DELHI 110007 (INDIA)

Subject: Acceptance in respect of terms and conditions of tender document for TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA COLLEGE, UNIVERSITY OF DELHI, DELHI 110007.

Dear Sir,

1. I / We have downloaded the tender document(s) for the above-mentioned tender from the website <https://sgtbkhapsadu.ac.in/> , [ePublishing System, Government of India \(eprocure.gov.in\)](http://ePublishing System, Government of India (eprocure.gov.in))
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, SRI GURU TEGH BAHADUR KHALSA 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 information and details necessary for demonstrating our qualification and have no further critical information to supply.
8. I / We understand and accept that PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA 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, SRI GURU TEGH BAHADUR KHALSA COLLEGE will not entertain any claim whatsoever in respect of taxes.

10. I/We understand and accept that PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA 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, SRI GURU TEGH BAHADUR KHALSA 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, SRI GURU TEGH BAHADUR KHALSA COLLEGE .
12. I/We understand and accept that, if after the tender is accepted, I / We fail to commence the execution of the works within the stipulated time, then PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE shall 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, SRI GURU TEGH BAHADUR KHALSA COLLEGE .

Yours Faithfully,

Signature of Bidder:

Name:

Designation:

Stamp of the Bidder:

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, SRI GURU TEGH BAHADUR KHALSA COLLEGE may take appropriate action as warranted.</p>		
Name:		
Designation:		
Stamp & Signatures:		
Place:		
Date:		

SPECIAL CONDITIONS OF CONTRACT

1. CONTRACTORS are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their Tender as to the nature of the ground and sub-soil (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. CONTRACTORS shall be deemed to have full knowledge of the site, whether they inspect it or not and no extra charge consequent to any misunderstanding or otherwise shall be allowed.
2. Submissions of the Tender by the CONTRACTOR implies that he has read all 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.
3. 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 favour of PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE before issue of letter to start the work.
4. The CONTRACTOR, whose Tender is accepted, shall permit PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE 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 of earnest money already deposited amount to the following % of the cost of the work: -
 - a) 5% of the bill amount.
 - b) 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 two year without any interest.
 - c) TDS on Income Tax/GST/Labour Cess etc. as applicable.
5. PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE will return the earnest money where applicable, to every unsuccessful contractor on return of all the Tender documents without any interest.
6. TDS on Income tax/GST/Labour cess etc. as applicable shall be deducted from the payments made to the bidder/contractor and TDS certificates shall be issued by the owner.

7. The work shall be carried out in accordance with the phasing plan approved by the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE to avoid any disturbance. The site is expected to be handed over immediately. The contractor will prepare and submit a Phasing Plan with Bar Chart with targeted dates of completion for all the activities and get it approved from the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE within 7 days of award of contract.
8. **The rates shall be inclusive of 2 years ON SITE comprehensive defect liability maintenance including all tools, plants, parts, labour, supervision and technical support.**
9. The work shall be carried out as per specifications in the Tender schedule/latest C.P.W.D. Specifications, along with the correction slips; issued up to date of acceptance of Tender in case of doubt the decision of the Architect shall be final and binding on the Contractor.
10. The Contractor shall carryout the work in stages as to cause minimum disturbance to the Owner. 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, SRI GURU TEGH BAHADUR KHALSA COLLEGE or his authorized representative in respect of such damages /injuries.
11. The serviceable materials out of the dismantled materials if any will be the property of the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE and all such materials shall be properly stacked by the Contractor as directed by the Engineer-in-charge. Decision of PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE or his authorized representative on the service-ability of the dismantled materials shall be final and binding on the Contractor.
12. All labour Employed by the Contractor shall be covered by the workman'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.
13. Contractor shall take adequate safety precautions to avoid any accident etc. at site. Shall erect proper barricades, sign boards, lights, etc. 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.
14. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 3 months from the date of commencement of work at site.

15. Rates quoted shall be applicable equally to all floors and shall include all lifts and leads. No extras on this account shall be payable.
16. The contractor shall provide training for operation and maintenance of Equipment's to the Owners representatives free of cost, where required.
17. 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 necessary to complete the items of work in all respects.
18. 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.
19. Labour Camp will be arranged by the contractor outside the Site of work at his own cost.
20. PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE 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.
- 21. The selected contractor shall take site measurements and submit shop drawings in AutoCAD, PDF & Printout with specifications for approval from PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE before starting the work at site. Contractor shall start work only after receiving approval from the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE**
22. Contractor shall provide adequate set of Spares free of charge to cover the immediate requirement of spares.

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, SRI GURU TEGH BAHADUR KHALSA COLLEGE
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 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 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 an item rate contract. The Contractor shall be paid for the actual quantity and quality of work done, as measured at site on the rates quoted by him, on the basis of 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. Contractor shall be bound to carry out the same without claiming any extras.

CONTRACT DRAWINGS

1. In general, drawings shall indicate dimension, position & type of construction.
2. Specifications shall indicate the qualities, methods, and bill of quantities shall indicate the quantum and rates. Any work indicated in drawings and not mentioned in the specifications or vice versa shall be furnished as fully set forth in both.
3. Contractor shall not deviate from the drawings and Architect's interpretation of the drawings shall be final and without appeal.
4. Errors/inconsistencies discovered in the drawings shall be instantly brought to the notice of the Architect for interpretation and correction, if any.
5. All drawings are the property of the Architect and shall not be used on any other project.

ARCHITECTS INSTRUCTIONS

If within seven days of receipt of written instructions from the Architect, requiring compliance with an instruction the Contractor does not comply hence-with, then the Owner may get the work executed through another agency at the risk and cost of the Contractor.

SCOPE OF WORK OF CONTRACTOR

The scope of work to be carried out by the CONTRACTOR shall also include the following:

1. Setting out of the works in respect of position, level dimensions, alignments, etc. including establishment of bench marks, survey reference points, etc.
2. Clearance of the site.
3. Site levelling /terracing within the limits as shown in the drawings or as directed by the Engineer In charge.
4. Disposal of debris, excavated materials, etc. as per the instructions of the Engineer In-Charge
5. All scaffolding, shorting, cantering, shuttering works, etc.
6. Running and maintenance of all plants and equipment, tools and tackles, etc.
7. Any other work required in connection with the execution of the contract work.

The cost of all the above-mentioned works shall be deemed to be included in the rates for various items of work although such inclusion may not be specifically spelt out.

SAMPLES AND SHOP DRAWINGS

The Contractor shall submit samples of materials and shops drawings required by the Architect with promptness within a week.

PROGRESS CHART

In order to achieve the completion time as stated above, the CONTRACTOR shall submit to the OWNER within 2 (two) days from the effective date of Agreement a detailed Bar chart/PERT Network. The list of activities for which the Bar chart/ PERT network has been

worked out and their commencement, duration and completion shall be subject to the approval of the OWNER

ACCESS FOR ARCHITECT/ ENGINEER IN CHARGE TO THE WORKS

The Architect and his representative shall have access, at all reasonable times, to the work and workshops of the Contractor.

ARCHITECTS STATUS AND DECISIONS

The Architect shall be Owner's representative during the construction period. He shall periodically visit the site to familiarize himself generally with the progress and the quality of work and to determine, in general if the work is proceeding in accordance with the contract documents. The Architect shall not be required to make exhaustive or continuous on-site 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 Architect may in his absolute discretion from time to time, issue further drawings, details, written instructions, written decisions and written explanations in regard to: -

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 works executed by the Contractor
5. Dismissal of any persons employed on the site, who in the opinion of the Architect is not fit for the job.
6. Opening up 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

ENGINEER IN CHARGE

Engineer In-Charge shall mean a competent engineer appointed and paid by the Owner and acting in congruence with the Architect.

CONTRACTORS FIELD ORGANIZATION AND EQUIPMENT

1. The Contractor shall employ qualified and competent licensed Electricians on the site.
2. Contractor shall provide and install all necessary hoists, ladders, scaffoldings, tools, tackles, plants and machinery necessary for execution of the works
3. Contractor shall provide and maintain simple water tight office accommodation at site

4. Contractor shall make his own security arrangements at site and keep a 24-hour Watchman
5. Contractor shall provide sanitary convenience for site staff and labour to keep the site clean
6. A telephone line at site to be maintained and paid by the Contractor
7. Guardrails shall be provided by the Contractor for safety of labour and general public at the site of works.

TAXES

All taxes including GST, Labour Cess etc. applicable in respect of this contract shall be payable by the Contractor and PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE will not entertain any claim whatsoever in respect of the same.

WATER & ELECTRICITY CHARGES

Contractor has to make own arrangement for water and electricity. In case contractor uses OWNERS water and electricity then 1% (of total bill value) deduction shall be made towards electricity charges and 1% (of total bill value) deduction towards water charges. Water and electricity will be provided at only one point in the college. Contractor has to make arrangement to tap the water and electricity from that point at his own cost.

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 bye-law 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:

1. Employee's Provident Fund Act 1952
2. Contract Labour Act (Regulations and Abolition 1970)
3. Minimum Wages Act 1948
4. Payment of Wages Act 1936
5. Workmen Compensation Act 1923
6. Factories Act 1948
7. Apprenticeship Act 1961

SUB CONTRACTOR

Before awarding any sub contract, the Contractor shall notify Architect/Engineer In-Charge in writing the names of the Sub-Contractors proposed. Contractor shall not employ the Sub-Contractor to whom Architect or Engineer In Charge may have a reasonable objection.

MEASUREMENT OF WORK

Unless otherwise specified, measurement of work shall be carried from the works actually executed. The measurements for the purpose of 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 certificate shall require Engineer In-Charge's endorsement for the purpose of payment.

In the event of any dispute with regard to the measurement of the work executed, 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 fulfil 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

Architect/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 Architect/ 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 works 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 every part of the contract work.

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 delay to the Architect/ Engineer In charge, to enable the Architect and Owner to take a proper decision in the matter.

INSPECTION AND TEST

1. 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.
2. The CONTRACTOR shall ensure proper supervision and inspection during the progress of work at site.
3. 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 labour, materials, tools, tackles, instruments, appliances, etc. to enable the ENGINEER IN CHARGE to carry out inspection and/or test.
4. All test certificates shall be subject to certification by the ENGINEER IN CHARGE.
5. The CONTRACTOR shall submit to the ENGINEER IN CHARGE three copies of all inspection/ test certificates.

6. 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.
7. The CONTRACTOR shall take adequate steps to rectify the defects or to replace such materials and work which have failed during inspection /testing.

RESPONSIBILITY OF COMPLETION

Any work, supplies or services which might have not 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 schedule specified. Rates quoted shall be deemed to include such elements of labour 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 Rs. 5,000/- (Five Thousand) per day of delay. 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

VIRTUAL COMPLETION CERTIFICATE AND DEFECTS LIABILITY PERIOD

When in 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 defect's liability period. The Contractor shall within a reasonable period of time 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 24 months from the actual date of completion and handling over to the OWNER.

1. The CONTRACTOR guarantees that within the maintenance guarantee period, the contract work shall not show any signs of defects, cracks, settlements, disfigurations, shrinkage, leakage, dampness or any other defects.
2. 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.
3. 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.
4. 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.
5. 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.
6. Upon successful completion of the maintenance guarantee period the OWNER shall issue final acceptance certificate to the CONTRACTOR

PAYMENT WITH HELD

The Architect 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 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 in the course of 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 the works against loss or damage due to fire, earthquakes and riots.

COORDINATION OF WORK

Contractor shall extend complete coordination to other agencies i.e. electrical, 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.

SAFETY

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.

GUARANTEE

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

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 24 months after completion of the work.

WARRANTY

The Contractor shall give warranty that works to be done supplied shall be new and free from all defects and faults in material, workmanship, and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The Contractor shall be responsible for any defects that may develop under the conditions

provided by the contractor and under proper use, arising from faulty materials, design or workmanship such as corrosion of the equipment, inadequate contact protection, deficiencies in design and or otherwise and shall remedy such defects at his own cost when called upon to do so by the Institute who shall state in writing in what respect goods are faulty. This shall survive inspection or payment for, and acceptance of goods, after the goods have been taken over.

If it becomes necessary for the contractor to replace or renew any defective Portion / portions of the equipment under this clause, the provisions of the clause shall apply to the portion / portions of equipment's replaced or renewed or until the end of the warranty period of 24 months, whichever may be later. If any defect is not remedied within a reasonable time, the College may proceed to get the work done at the Contractor's risk and expenses, but without prejudice to any other rights which the College may have against the Contractor in respect of such defects. Replacement under warranty clause shall be made by the Contractor free of all charges at site including freight, insurance and other incidental charges

REPLACEMENT OF DEFECTIVE EQUIPMENT

If any equipment or any part thereof, is found defective or fails to meet the requirements of the contract before it is accepted College shall give the Contractor a notice setting forth details of such defects or failures and the Contractor shall forthwith arrange to set right the defective equipment or replace the same by the good one to make it comply with the requirements of the contract. This in any case shall be completed within a period not exceeding one month from the date of the initial report pointing out the defects. The replacement or rectification shall be made at site by the Contractor free of cost. Should the Contractor fail to do the needful within this stipulated time frame, the College reserves the right to reject the equipment in full or in part and get it replaced at the cost of the Contractor. The cost of any such replacement made by the College shall be deducted from the amount payable to the Contractor against this purchase order.

If any equipment or part thereof is lost or rendered defective during transit, pending settlement of the insurance claim, fresh order shall be placed on the Contractor for such loss or defective equipment and the Contractor shall arrange to supply the same within three months of such order at the same prices and on the same general terms and conditions as mentioned in this purchase order.

ADD ON ORDER

PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE reserves the right to place Add on order for additional quantity up to 100% of the original quantity at the same rate and terms & conditions of the purchase order within six months from the date of issue of purchase order.

ARBITRATION

In case of dispute, the difference of opinion on any matter pertaining to the works, the decision of the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE be final and binding on the contractors. If either party is not satisfied with the decision of the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE, within 28 days a notice to this effect will be sent to the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE in writing. The matter can then be referred to a sole arbitrator or a panel of two arbitrators appointed under the arbitration act 1996.

LIQUIDATION

If the CONTRACTOR commences to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carries on his business under a receiver for the benefits of his creditor the OWNER shall be at liberty to:

- i) Give such receiver the liquidator or other person the option of carrying out the performance under the Agreement, subject to the receiver, liquidator or other person providing a guarantee up to an amount to be agreed upon by the OWNER and such receiver liquidator or other person for the due and faithful performance of the Contractor's obligations under this Agreement, or
- ii) If the receiver, liquidator or other person fails within 30 (thirty) days to exercise the option to carry out performance of the Agreement then the OWNER may terminate the Agreement and give notice in writing to the CONTRACTOR or to the receiver, liquidator or to any person in whom the Agreement may have become vested.

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.

OFFICIALS NOT TO BENEFIT

The Contractor warrants that it has not and shall not offer any direct or indirect benefit arising from or related to the performance of the Contract or the award thereof to any representative, official, employee, or other person in the office of PRINCIPAL, SRI GURU TEGH

BAHADUR KHALSA COLLEGE , UNIVERSITY OF DELHI, DELHI 110007 (INDIA).
The Contractor acknowledges and agrees that any breach of this provision is a breach of an essential term of the Contract.

PENALTY FOR USE OF UNDUE INFLUENCE

The contractor undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or for bearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract.

Any breach of the aforesaid undertaking by the Contractor (Seller) or any one employed by him or acting on his behalf (whether with or without the knowledge of the Seller) or the commission of any offers by the, Seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the Contract and all or any other Contracts with the Seller.

FORM OF PERFORMANCE SECURITY BANK GUARANTEE BOND

In consideration of the PRINCIPAL, SRI GURU TEGH BAHADUR KHALSA COLLEGE (hereinafter called “The Owner”) having agreed under the terms and conditions of agreement no.

Dated:

Made between the Owner and

(hereinafter called “the Said Contractor(s)) for the work of **TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA COLLEGE, UNIVERSITY OF DELHI, DELHI 110007** herein after called “the said agreement”.

We (please mention name of the bank below)

Undertake to pay to The Owner an amount not exceeding Rupees

(In words)

On demand by The Owner.

2. We (please mention name of the bank below)

Do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from The Owner stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rupees

(In words)

3. We, the Said Bank further undertake to pay to The Owner any money so demanded notwithstanding any dispute or disputes raised by the Said Contractor(s) in any suit or proceeding pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the Said Contractor(s) shall have no claim against us for making such payment.

4. We (please mention name of the bank below)

Further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and it shall continue to be enforceable till all the dues of The Owner under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-Charge on behalf of The Owner certified that the terms and conditions of the said agreement have been fully and properly carried out by the Said Contractor(s) and accordingly discharges this guarantee.

5. We (please mention name of the bank below)

Further agree with The Owner that The Owner shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for anytime of from time to time any of the powers exercisable by The Owner against the said contractor(s) and to for-bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the Said Contractor(s) or for any forbearance, act of commission on part of The Owner or any indulgence by The Owner to the Said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the change in the constitution of The Bank or the Said Contractor(s)

7. We (please mention name of the bank below)

Lastly undertake not to revoke this guarantee except with the previous consent of The Owner in writing.

8. This Guarantee shall be valid upto _____. Unless extend on demand by The Owner. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rupees

(In words)

And unless a claim in writing is lodged with us within six months of the date of expiry of the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

TENDER FOR SITC OF 1.5 TR 3-STAR NON-INVERTER AC AT SRI GURU TEGH BAHADUR KHALSA
COLLEGE, UNIVERSITY OF DELHI, DELHI 110007

Dated: the _____ day of _____ for _____ (Bank).

TURNOVER CERTIFICATE (ANNEXURE 1)

ON THE LETTER PAD OF CHARTERED ACCOUNTANT

This is to certify that the total turnover of

M/s _____

Having PAN _____

is as under:

FINANCIAL YEAR	AMOUNT (FIGURES)	AMOUNT (WORDS)
2018-2019		
2019-2020		
2020-2021		

Average = Total/3 = _____

It is further certified that the above-mentioned amounts have been derived from the books of accounts presented before us for the above-mentioned periods.

Stamp and Signature of Chartered Accountant.

TECHNICAL SPECIFICATIONS

Any demolition/dismantling/crossing of civil structure required for installation of services and making it good as per original shall be deemed to have been included in the cost quoted by the bidder and no extra payment for these works will be made. Bidders are advised to visit the site to access the extent & requirement for such works to be conducted.

RATES SHALL BE INCLUSIVE OF THE FOLLOWING:

1. All Taxes, royalties etc.
2. All tools, plants, labour, materials, equipment, technical staff etc. Required to complete the work up to the satisfaction of the engineer in charge.
3. All equipment stands, mounts, suspenders, brackets, gas and other consumables as may be required to complete the work satisfactorily.
4. Taking Site Measurements, making shop drawings for the complete work, modifying them as may be required as per owners' requirements and taking approval of shop drawings before proceeding with the work at site.
5. 2 years on site comprehensive defect liability period with maintenance including all tools, plants, parts, labour, supervision and technical support staff.

LIST OF APPROVED MAKES FOR CIVIL WORKS

Approved Make of Materials		
(Applicable wherever the make is not listed in the item)		
S.No.	Materials	Manufacturer
1)	Commercial Ply and Commercial Board	Duro, Greenply, Virgo , Merino
2)	Teak Ply	Duro, Greenply, Virgo, Merino
3)	Laminate	Greenlam, Virgo, Merino, Sundek
4)	Mirror	Modigaurd, Saint Gobain
5)	Glass	Modigaurd, Saint Gobain
6)	Flush Door Shutters	Duro, Green, Virgo, Merino
7)	Paints	Nerolac, I.C.I, Asian, Berger
8)	Mortice Latches And Locks	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
9)	Coarse Sand	As Per Is:383 (Latest Edition) Approved Quarry Or Equivalent
10)	Fine Sand	Do.
11)	Stone Aggregate	Do.
12)	Aluminium Section	Jindal/ Hindalco.
13)	Wall and Floor Tiles	Orient, Kajaria, Nitco, Johnson, Somany, Asian.
14)	Mdf Board	Century Prowud, Greenpanel, VIR.
15)	Hinges-Ms Oxidised / SS	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
16)	Tower Bolt	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
17)	Door Stopper	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
18)	L-Drop	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
19)	Handles and locks	Godrej, Dorset, Hardwyn, Ebco, Hettich,Hafele.
20)	Pvc Strips/ Hand Rail /Railing	Fixo Pan , Sun, Kelco, S-Rail,
21)	Cement: OPC 43 / 53	Ultratech, L&T, Ambuja, JK Laxmi, ACC.
22)	Steel	Tata, Sail, RNIL, Rathi Thermax 500.

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
1	LT Panel, Main Distribution Panel, Sub-Main Distribution Panel and Motor Control Centre	Tricolite industries Ltd.
		Adlec Control System
		SPC Electro Tech Pvt. Ltd.
		Ambit Switchgear
		Milestone
2	Sandwiched Construction Bus ducts	Control & Switchgear
		Henikwon (L&T)
		GE
		Schneider Electric
3	Final Distribution Board	Legrand
		Hager
		ABB
		Siemens
		Schneider Electric (MG)
4	Air Circuit Breaker (3/4 Pole)	Schneider Electric (MVS)
		Larsen & Toubro (C-Power)
		ABB (E-Max)
		Siemens
5	Moulded Case Circuit Breaker (MCCB)	Larsen & Toubro
		ABB
		Schneider Electric (CVS)
		Siemens
6	Motor Protection Circuit Breaker(MPCB)	Hager
		ABB
		Schneider Electric
		Siemens
7	Miniature Circuit Breakers (MCB)	Hager
		ABB
		Schneider Electric
		Siemens
8	Residual Current Circuit Breaker (RCCB)	Hager
		ABB
		Schneider Electric
		Siemens
9	Power/Aux. Contactor / Capacitor Duty Contactor	Schneider Electric (MG)
		Hager (L&T)
		ABB
		Siemens
10	Change Over Switch	Larsen & Toubro
		C & S

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LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
		HPL – Socomec
11	Control Transformer/Potential Transformers	Automatic Electric
		Matrix
		Pragati
		Precise
12	Current Transformer (Epoxy Cast Resin)	Automatic Electric
		Matrix
		Pragati
		Precise
13	Protection Relay	
	a. Numeric Type	ABB
		Areva
		Larsen&Toubro
		Siemens
	b. Electromagnetic Type	ABB
		Areva
		Larsen&Toubro
14	Indicating Lamps LED type and Push Button	Vaishno Electricals
		Larsen & Toubro (ESBEE)
		Schneider Electric Siemens
15	Overload relays with built in Single Phase preventer	ABB
		Larsen & Toubro
		Schneider Electric
		Siemens
16	a. Electronic Digital Meters (A/V/PF/Hz/KW/KWH) with LED Display	Conzerv
		Schneider Electric
		Secure
	b. ISI Marked Dual Energy Meter with centralized metering & billing system	Secure
		Radius
17	Static Power Meter & Logger (SPML)	Conzerv
	With RS 485 port	Schneider Electric
		Secure
18	Power Capacitor	Matrix
		Ducati
		EPCOS
		Meher
19	Autoamtic Power Factor Correction Relay	Areva
	(Numeric Type)	BELUK (Germany)
		Siemens

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LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
20	PVC insulated XLPE aluminium/copper conductor armoured MV Cables upto 1100 V grade	Cable corporation of India
		Skytone
		Ravin Cable
		Polycab
		KEI
		Dimond
21	LT Jointing Kit / Termination	Birla-3M
		Raychem
		REPL
		Safe Kit
22	Cable Glands Double Compression with earthing links	Baliga Lighting
		Comet
		Cosmos
23	Bimettalic Cable Lug	Comet
		Dowell's (Biller India)
		Hax Brass (Copper Alloy India)
24	PVC insulated copper conductor stranded flexible wires	Finolux
		R RKabel
		Skytone
		KEI
		Polycab
		BatraHenlay
25	Mettalic / GI Conduit (ISI approved)	AKG
		BEC
		NIC
26	Lead Coated Flexible GI Conduit	PLICA India Pvt. Ltd.
		Flexicon
27	PVC Conduit & Accessories (ISI approved)	AKG
		BEC
		Precision
		Polypack
		Ravindra
28	Industrial Socket	
	a. Splash Proof	Clipsal
		Gewiss
		Legrand
		Neptune Balls
		Schneider Electric
	b. Metal Clad	BCH
		MDS
29	Switch & Socket	Clipsal (Opal Series)
		Crabtree

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LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
		M K India (Wraparound)
		Idoasian-simon
		Legrand (Mosaic)
		Wipro (NorthWest)
		Havells –crownos
		ABB – Lumina
		Anchor Roma
		Siemens
		L&T
30	Ceiling Fan	Crompton Greaves
		Havells
		Orient
		Usha
31	Lighting Fxiture	
	a. Incandescent / Halogen / PL / Metal Halide) / Fluorescent	Philips
		Wipro
		GE
	b. External Lighting Fixture	Bajaj Electricals Ltd.
		Keslec
		LIGMAN
		Philips
		Wipro
	b. Aviation Obstruction Light(LED Type)	Actos
		Bajaj
		Binay
32	Electronic Ballast for Fluorescent (To be selected as per fixtures' manufacturer)	Osram
		Opal
		Philips
		Thorn
		Wipro (APF)
33	Selector Switch, Toggle switch	Kaycee
		Salzer (Larsen & Toubro)
34	Cable Trays (Factory Fabricated) / Raceways	Profab Engineer
		Ricco Steel
		Needo
		MaheshwariElectrtricals
35	Sealed Maintenance Free Batteries	Amar Raja
		Exide
		Global (Rocket)
		Hitachi
		Shinkobe
36	Battery Charger	Caldyne
		ChhabiElectricals

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LIST OF APPROVED MAKES FOR ELECTRICAL WORKS		
S.No.	Details of Materials / Equipment	Manufacturer's Name
		Joshi Electricals
		Max Power
		Volstat
37	Invertor	Autopro (Professional Lighting)
		Luminous
		Megatech
		Microtek
38	Lightning Protection System	Erico
	(Early Streamer Emission Type)	LPI
39	Timer	ABB
		Larsen & Toubro
		Legrand
		Schneider Electric
		Siemens
40	50 W Halogen Light Transformer	Gemini Global
	(Encapsulated Transformer)	Opal
		Philips
		Reiz
41	Tap off / splitters complete with gasketed G.I. boxes	Catvision
		CE
		DX
		Powerage
		Vision Hire
B.	<u>TELEPHONE / DATA</u>	
1	Tag Block	Krone
		TVSE
2	Telephone armoured / unarmoured cable / wire	Delton
		Finolex
		Skytone
		Fusion Polymer
		Polycab
3	Coaxial Cable	Beldon
		Comm-Scope (US Imported)
		Fusion Polymer

FINANCIAL BID

Note: Contractor has to make own arrangement for water and electricity. In case contractor uses college water and electricity then 1% deduction shall be made towards electricity charges and 1% deduction towards water charges.

S.NO.	DESCRIPTION	Qty.	Unit	Rate (With GST)	Amount (With GST)
1)	Hi-wall Split Unit (3 Star Rated NON-Inverter AC)				
	Supply, installation, testing and commissioning of Hi-wall Split Unit with rotary compressor & cordless control of following capacity including				
	1) Outdoor unit stand/ wall mount/ceiling suspension				
	2) Power & control cabling. (FRLS 4 Core 4 Sq.mm. wire in FRLS Conduit)				
	3) MCB's. 20 AMP				
	4) Voltage Stabilizer (140V to 280V) Copper wounded: 4 KVA (Servo mate, Bluebird or VGuard make)				
	5) Refrigerant Piping duly insulated with 13 mm for indoor application and 19 mm for outdoor application closed cell nitrile rubber of density 60+/-10% Kg/m ³ to interconnect indoor & outdoor units for each circuit. Up to 3 meters per unit.				
	6) 25 mm dia UPVC Condensate Drain Water piping of density 20 kg/m ³ complete with fittings like elbows, tees, reducers, bends, support and 13mm thick insulation.				
	7) Anti-Corrosion Coating on coils.				
1.1)	1.5 TR Hi-wall Split Unit (3 Star Rated NON-Inverter AC)	30	Nos		
2)	Supply, installation, testing and commissioning of additional refrigerant piping (two lengths) duly insulated with 13 mm for indoor application and 19 mm for outdoor application closed cell nitrile				

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S.NO.	DESCRIPTION	Qty.	Unit	Rate (With GST)	Amount (With GST)
	rubber of density 60+/-10% Kg/m ³ to interconnect indoor & outdoor units for each circuit. (Refrigerant piping for individual circuit shall be restricted to maximum length of 25 Meter by AC Contractor)				
2.1)	For High Wall Split Unit	100	Rmt		
3)	Drilling or core cutting in slabs, wall and beams by mechanical means of different dia meters, square or rectangular cut-outs as per services requirements including necessary support, shuttering and safety precautions UPTO 300 mm deep including sealing the core-cut with 3M TM Scotch cast TM Duct Sealing Kit 4416 or FST TM Foam Duct Sealant				
3.1)	75 MM DIA	30	Each		
	TOTAL HVAC WORK				

RATES SHALL BE INCLUSIVE OF THE FOLLOWING:

1. All Taxes etc.
2. All tools, plants, labour, materials, equipment, technical staff etc. Required to complete the work up to the satisfaction of the engineer in charge.
3. All equipment stands, mounts, suspenders, brackets, gas and other consumables as may be required to complete the work satisfactorily.
4. Making shop drawings for the complete work, modifying them as may be required as per owners' requirements and taking approval of shop drawings before proceeding with the work at site.
5. 2 years on site comprehensive defect liability period with maintenance including all tools, plants, parts, labour, supervision and technical support staff.

LIST OF APPROVED MAKES FOR HVAC WORKS

LIST OF APPROVED MAKES		
S.No.	ITEM DESCRIPTION	MAKES
1	VRV / VRF AIR COOLED	O-GENERAL, TOSHIBA, MITSUBISHI, DAIKIN
2	Split AC Unit	O-GENERAL, TOSHIBA, MITSUBISHI, DAIKIN
3	AHU's (with DX-type coil)	Zeco Edgetech Ravi aircon VTS
4	FCU's	Zeco Edgetech Ravi aircon VTS
5	Motors	Siemens ABB General Electric
6	Filters	Mechmark Merchair Sterile air
7	Fans	
a	Centrifugal Fans	Kruger Green Heck Mico
b	Cabinet Fans Kruger Green heck Mico	Kruger Green Heck Mico
c	Vane/ Tube Axial Fans Kruger Green Heck Mico	Kruger Green Heck Mico
d	Propeller Fans Kruger Green Heck Mico	Kruger Green Heck Mico

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LIST OF APPROVED MAKES		
S.No.	ITEM DESCRIPTION	MAKES
e	Inline Fans Kruger Green Heck Mico	Kruger Green Heck Mico
8	Electrical Panel	EAP RST Krypton
9	GSS Factory Fabricated Duct	Ductofab Zeco Rolastar
10	Flexible Duct	Thermafex Rolastar GP Spira
11	Duct Support	Hilti Gripple
12	Grills	Ruskin Titus Caryaire Glenstorms Cynor
13	Diffuser	Ruskin Titus Caryaire Glenstorms Cynor
14	Louvers	Ruskin Titus Caryaire Glenstorms Cynor
15	Fire Dampers	Ruskin Titus Caryaire Glenstorms Cynor
16	Fire Damper Actuators	Johnson Honeywell Belimo
17	Volume Control Dampers	Ruskin Titus Conaire Glenstorms
18	Refrigerant	Piping Mandev Rajco Kembla

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LIST OF APPROVED MAKES		
S.No.	ITEM DESCRIPTION	MAKES
19	Welding Rods	Advani , L & T , Maruti weld
20	M.S Pipes	Sail Tata Jindal
21	Balancing Valves	Danfoss Belimo Advance
22	Flexible connection	Easyflex BDK Resistoflex
23	Duct Insulation	Thermobreak Torcellene K-flex
24	Pipe Insulation	Thermobreak Torcellene K-flex Armacell
25	Accoustic Insulation	Armacell Owen's Corning K- flex
26	Aluminium Tape	Johnson Birla 3M Wonder Polymer
27	Adhesive	Pidilite Mechduct
28	PVC Pipe	Astral Supreme Finolex
29	Isolators	Indo-Asian ABB Schneider