

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.



**SHAHEED BHAGAT SINGH COLLEGE
UNIVERSITY OF DELHI**

Tender No.	SBSC/500 dated 4th August, 2022
Project Name	Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi.

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SECTION I -PROJECT INFORMATION

Tender No. : SBSC/500 dated 4th August 2022
Project : Renovation of Existing Classrooms into Computer
Labs at Shaheed Bhagat Singh College, University
of Delhi.
Client : Shaheed Bhagat Singh College, University of
Delhi.
Site Address : Shaheed Bhagat Singh College, University of Delhi.
Sheikh Sarai Phase II, New Delhi 110017,
Phone No. 011-29250306
Estimated Build Up Area : 230.00 sqm (approx)
Estimated Cost :
Earnest money Deposit : Rs. 2,00,000/-
Tender Document Fee : Rs. 1,000/-
Last Date& Time for
Downloading Tender Document: 05/08/2022 (11:00 AM)
Last Date& Time for Bidding : 29/08/2022 (03:30 PM)
Pre-bid Meeting : Pre-Bid Meeting held in the office of
Administrative Officer at 11:30 AM on 19
August 2022 in SBSC Delhi – 110017.
Location of Submission of
Time for Completion : 4 months from the date of award of contract

Date of Technical Bid Opening : 01st September, 2022.

Date of Financial Bid Opening : .07th September, 2022.

Eligibility Criteria : Refer Eligibility Criteria under Technical
bid

Existing Conditions of Site : To be examined by the Contractor

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SECTION II

NOTICE INVITING TENDER

1. Online Tenders are invited by the Principal, Shaheed Bhagat Singh College for Civil/Electrical/Interior works pertaining to conversion of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi.
2. The Tender shall be submitted through online portal eprocure.gov.in.
3. The works are required to be completed within a period of Four months from the date of award of contract.
4. The work shall be carried out in accordance with the phasing plan approved by the college authorities to avoid disturbance to the normal working of the College. The contractor will prepare and submit a Phasing Plan with Bar Chart of all construction activities with targeted dates of completion for all the construction activities and get it approved from the college authorities
5. CONTRACTORS/TENDERERS are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their Tender as to the nature of work and type of classrooms, 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 bid. CONTRACTOR/TENDERER 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/TENDERER 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. BOQ is prepared as per percentage rate tender template. A CONTRACTOR/TENDERER should quote rate(s) in BOQ according to percentage rate only. The contractor shall quote the percentage rate which would reduce the tender amount and would become the

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Tenderers' Financial Bid.

8. The Tender shall be accompanied by earnest money deposit of Rs.200,000/- (Rupees Two Lac Only) and Tender Fee of Rs. 1000/- (Rupees One Thousand Only), in the form of a demand draft/ pay order in favour of the Principal, Shaheed Bhagat Singh College (SBSC), New Delhi to be sent either by speed post or by hand in person at SBSC Office.
9. The successful Tenderer / contractor shall furnish a performance guarantee in the form of an F.D.R/ pay order of 3% of the accepted Tender cost in favor of Principal, Shaheed Bhagat Singh College (SBSC), New Delhi before issue of letter to start the work.
10. The CONTRACTOR/TENDERER, whose Tender is accepted, shall permit the Principal, Shaheed Bhagat Singh College (SBSC), New Delhi at the time of making any payments to him for works done under the contract to deduct towards security deposit @10%.
11. Further the Earnest money deposited will be returned to the successful bidder after the submission of Performance Guarantee and Performance Guarantee will be released after the successful completion of work up to the satisfaction of Architect/ Authorized person as appointed by SBSC. 50% of the Security amount deducted will be released after the completion work up to the satisfaction of Architect/ Authorized person as appointed by SBSC and remaining 50% of the amount will be released after the completion of defect liability period of one year. No interest of any sort will be paid upon the above amounts.
12. A CONTRACTOR shall submit the Tender which satisfies each and every condition laid down in this notice, failing which the Tender shall stand to be rejected.
13. Shaheed Bhagat Singh College (SBSC), New Delhi does not bind itself to accept the lowest or any tender or to give any reasons for their decision.
14. Shaheed Bhagat Singh College (SBSC), New Delhi reserves the right of accepting the whole or any part of the Tender and CONTRACTOR shall be bound to perform the same at his quoted rates and reserves to itself the authority to reject any or all of the tenders received without assigning any reason.

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15. GST or any other tax applicable in respect of this contract shall be payable by the Contractor and Shaheed Bhagat Singh College (SBSC) will not entertain any claim whatsoever in respect of the same.
16. T.D.S. as per the prevailing rates shall be deducted from the payments to be made to the Contractor and tax deduction certificate shall be issued by Shaheed Bhagat Singh College (SBSC).
17. This notice of Tender shall form part of the documents to be submitted as part of technical bid

Contractor:

Duly authorized to sign the On Behalf
of M/s
Signature.....

Date.....

SBSC:

For and on behalf of
Shaheed Bhagat Singh
College (SBSC), New Delhi

Authorized Signatory


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SECTION III
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

- SBSC: Shaheed Bhagat Singh College (SBSC) New Delhi
- CONTRACTOR or TENDERER refers to who are applying for the tender
- The site: shall mean the site of contract work at Shaheed Bhagat Singh College (SBSC), New Delhi.
- Sub-Contractor: includes those who have a direct contract with the Contractor.
- Notice: written notice shall be deemed to have been served if delivered in person to a member of the Contractors firm.
- SBSC: Shaheed Bhagat Singh College (SBSC), New Delhi.
- Work: the term “work” includes both labour and material of the Contractor/Sub- Contractor required for execution of work
- Time limits: time limits or 4 months stated in the contract are essence of the contract.
- Law: law of the place of work shall govern the construction under this contract.
- 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.
- Contract documents: shall consist of the following
 - a) TECHNICAL BID DOCUMENTS
 - b) TENDER DOCUMENT


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TYPE OF CONTRACT

It is a percentage 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/ Authorized person as appointed by SBSC.

SCHEDULE OF QUANTITIES

Schedules of quantities given in the contract are provisional and are meant to indicate the intent of the work and to provide a uniform basis for the contract. The SBSC 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

- In general, drawings shall indicate dimension, position & type of construction.
- 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.
- Contractor shall not deviate from the drawings and Architects interpretation of the drawings shall be final and without appeal.
- Errors/inconsistencies discovered in the drawings shall be instantly brought to the notice of the Architect for interpretation and correction, if any.
- All drawings are the property of the Architect/SBSC and shall not be used on any other project.
- Bar bending schedule, if requested by the Architect/Authorized person as appointed by SBSC shall be furnished to him prior to fabrication.

ARCHITECTS INSTRUCTIONS

If within seven days of receipt of written instructions from the Architect,

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requiring compliance with an instruction the Contractor does not comply hence-with, then the SBSC may get the work executed through another agency at the risk and cost of the Contractor.

SCOPE OF WORK OF CONTRACTOR

There is existing 5 nos. of classrooms at Shaheed Bhagat Singh College, which are to be renovated and converted into modern Computer labs with all the required electrical and AV works. The scope of work for the contractor will be as per the following but not limited to:

- a) Detailed visual and physical surveying of the existing classrooms,
- b) Dismantling the existing the classroom (not the building structure) including all the works relating to Civil, Electrical, Glassworks, flooring, doors and windows, etc.
- c) Removal of existing doors and windows
- d) Clearance of the site.
- e) Disposal of all the debris, materials, etc. as per the instructions of the Authorized person as appointed by SBSC
- f) All scaffolding, shorting, centering, shuttering works, etc.
- g) All temporary /enabling works required for ease of working in the institution,
- h) Required and necessary barricading of site to prevent any harm or damage.
- i) Renovation work will include miscellaneous civil repair, electrical and AV works,
- j) Fixing of new wooden/UPVC doors and windows with the required glasswork as per detail design and drawings,
- k) Laying of flooring as per detail design,
- l) Installation of False ceiling at the desired height and design as per the detail design including all the necessary scaffolding and equipments, etc.
- m) Finishing works,

- n) Supplying and installation of various furniture, blinds/curtains and other

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misc. furniture items.

- o) Supply, Installation and commissioning of all the related electrical and AV works as per the items of the BOQ.

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.

Whether specified elsewhere in the Agreement or not, the CONTRACTOR shall provide all materials (including steel and cement unless specifically spelt out in the agreement otherwise), labors of every description, energy and water and all tools, tackles, plant and transport necessary for proper execution of the work to the entire satisfaction of the SBSC.

PROGRESS CHART

In order to achieve the completion time as stated above, the CONTRACTOR shall submit to the SBSC within 2 (two) weeks from the effective date of Agreement a detailed Bar chart/PERT Network showing all the activities including mobilization, site clearance, procurement of major construction materials like steel and cement, excavation, foundation work, sanitary and water supply work, etc. 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 SBSC

ACCESS FOR ARCHITECT / Authorized person as appointed by SBSC TO THE WORKS

The Architect / Authorized person as appointed by SBSC and their representative shall have access, at all reasonable times, to the work and workshops of the Contractor.

ARCHITECTS STATUS AND DECISIONS

The Architect shall be SBSC's representative during the construction period. He shall regularly 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. During his site inspections the Architect shall inform the SBSC about progress of work,

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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: -

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

AUTHORIZED PERSON AS APPOINTED BY SBSC

Authorized person as appointed by SBSC shall mean the person approved by and appointed and paid by the SBSC and acting under the directions of the Principal SBSC.

CONTRACTORS FIELD ORGANIZATION AND EQUIPMENT

- The Contractor shall employ qualified and competent licensed Electricians on the site.
- Contractor shall provide and install all necessary hoists, ladders, scaffoldings, tools, tackles, plants and machinery necessary for execution of the works
- Guardrails shall be provided by the Contractor for safety of labour and general public at the site of works.


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TAXES

The contractor should quote their rates inclusive of all taxes, levies and GST. Any other tax applicable in respect of this contract shall be payable by the Contractor and Shaheed Bhagat Singh College (SBSC) will not entertain any claim whatsoever in respect of the same

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 SBSC 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

Note: Any liability arising from the mishappening/accident at the site shall be sole responsibility of the contractor.

SUB CONTRACTOR

NOT APPLICABLE.

MEASUREMENT OF WORK

Unless otherwise specified, measurement of work shall be carried for the works actually executed. The measurements for the purpose of preparing Bills will be taken jointly by the CONTRACTOR's

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representative and the Architect/ Authorized person as appointed by SBSC. 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.

In the event of any dispute with regard to the measurement of the work executed, the decision of the SBSC 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 Architect/Authorized person as appointed by SBSC shall be deemed to be the correct measurement of work and shall be binding on the CONTRACTOR. All the measurement works shall be guided as per Standard CPWD Guidelines/ Specifications without any deviation. The agency should ensure and satisfy themselves of any such details as per the drawings before quoting their rates for the works.


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 Architect/Authorized person as appointed by SBSC 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 Architect/Authorized person as appointed by SBSC and the CONTRACTOR shall remove the materials from the site within the period specified by the Authorized person as appointed by SBSC.

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

CERTIFICATES OF PAYMENTS


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The contractor shall submit a bill along with detailed measurement book duly certified by the Architect. Architect shall issue an interim certificate of payment stating the amount due to the Contractor from the SBSC and the Contractor shall be entitled to payment thereof within a period of two weeks 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. The final bill as when submitted by the contractor will be released within a period of one month from the date of successful completion of all the works supporting with a certificate from the Architect.

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 Authorized person as appointed by SBSC shall within seven days 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/Authorized person as appointed by SBSC deems it inexpedient to correct work damaged or not done in accordance with the contract, an equitable deduction from the contract price shall be made thereof.

FLUCTUATIONS


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Since the duration of contract is four months only, 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 SBSC, 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 delay to the Architect/Authorized person as appointed by SBSC, to enable the Architect and SBSC to take a proper decision in the matter. Though the decision of granting extension of will be reserved to the Client.

INSPECTION AND TEST

- i. The CONTRACTOR shall ensure inspection and test of all materials and work at his cost through his Authorized person as appointed by SBSC and other technical staff either at site or through any approved laboratory.
- ii. The CONTRACTOR shall ensure proper supervision and inspection during the progress 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 Authorized person as appointed by SBSC. The CONTRACTOR/ his Sub-Contractor shall provide all facilities free of cost to the Authorized person as appointed by SBSC including all labor, materials, tools, tackles, instruments, appliances, etc. to enable the Authorized person as appointed by SBSC to carry out inspection and/or test.

All test certificates shall be subject to certification by the Authorized person as appointed by SBSC.

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- v. The CONTRACTOR shall submit to the Authorized person as appointed by SBSC 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 Authorized person as appointed by SBSC.
- vii. 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 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 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 SBSC 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 SBSC within the time stipulated the CONTRACTOR, without prejudice to any other right or remedy of the SBSC on account of such breach, be liable to pay the SBSC liquidated damages at the rate of 1% (one percent) of the total contract price for delay of every week or part thereof up to a maximum ceiling of 10% of the gross amount of the contract.

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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 the works are practically completed, he shall in consultation with Principal SBSC will issue a certificate to that effect, that date will be taken as the date of virtual completion.

The Authorized person as appointed by SBSC 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/Authorized person as appointed by SBSC 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 handing over to the SBSC.

- a) 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.
- 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 during the maintenance guarantee period.
- c) The CONTRACTOR shall, if required by the Authorized person as appointed by SBSC, search for the causes of any defects, imperfection or fault under the direction of the Authorized person as appointed by SBSC. The cost of such search shall be borne by the CONTRACTOR.
- d) At intervals specified by the Authorized person as appointed by SBSC the CONTRACTOR, along with the Authorized person as appointed by SBSC, shall inspect the contract work to satisfy him that no defects have cropped up in the contract work. Should there be any signs of

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defects, the CONTRACTOR shall take immediate steps to rectify the same, failing which; the Authorized person as appointed by SBSC 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 Authorized person as appointed by SBSC, 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 Authorized person as appointed by SBSC. 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 Authorized person as appointed by SBSC 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 SBSC shall issue final acceptance certificate to the CONTRACTOR

PAYMENT WITH HELD

The Architect/ Authorized person as appointed by SBSC 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 SBSC from loss, for defective work, non- payment to Subcontractors, or other claims connected to this work.

INJURY TO PERSONS

The Contractor shall indemnify the SBSC 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 SBSC, the Contractor shall maintain such insurance as are necessary to cover the liability of the

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
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Contractor and the sub-Contractors.

INSURANCE AGAINST FIRE

The Contractor shall in the joint name of the SBSC 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, or any other new agencies working on the same site.

LABOUR

Contractor shall not employ child labour under 18 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. 1000/- for each default and in addition, the Authorized person as appointed by SBSC 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

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University of Delhi,
शेख सराय-II, नई दिल्ली-110017/
Sheikh Sarai, Phase-II, New Delhi-110017

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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University of Delhi.

property of the SBSC. The Contractor shall carefully take out and preserve all such objects and hand them over to the SBSC, through the Architect.

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 Demand Draft/ Pay Order to the tune of Three percent (3%) of the cost of the tender amount, which will be kept valid up to 12 months after completion of the work.

ARBITRATION

In case of dispute, the difference of opinion on any matter pertaining to the works, the decision of the Principal SBSC shall be final and binding on the contractors. If the contractor is not satisfied with the decision, within 28 days a notice to this effect will be sent to the Principal SBSC in writing. The matter will then be referred to sole arbitrator appointed by the Principal SBSC in this regard.

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 SBSC 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 SBSC and such receiver liquidator

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University of Delhi,
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Sheikh Sarai, Phase-II, New Delhi-110017

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(SIGN AND STAMP OF TENDERER)

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.


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 SBSC 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/Authorized person as appointed by SBSC in connection with the work or shall contravene or breach any provisions of the Agreement, the SBSC 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 SBSC 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 SBSC may sustain in this behalf.

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


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Shaheed Bhagat Singh College
दिल्ली विश्वविद्यालय
University of Delhi,
शेख सराय-II, नई दिल्ली-110017/
Sheikh Sarai, Phase-II, New Delhi-110017

SECTION - IV

SPECIAL CONDITIONS OF CONTRACT

1. 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.
2. The Contractor shall carryout the work in stages as to cause minimum disturbance to the working of Shaheed Bhagat Singh College (SBSC), New Delhi and other organizations nearby SBSC. He 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 or his authorized representative in respect of such damages /injuries.
3. The serviceable materials out of the dismantled materials if any will be the property of the college and properly stacked by the Contractor as directed by the Authorized person as appointed by SBSC. Decision of principal or his authorized representative on the service-ability of the dismantled materials shall be final and binding on the Contractor.
4. All labor 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.
5. 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.

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6. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 4 months from the

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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date of commencement of work at site.

7. Rates quoted shall be applicable equally to all floors and shall include all lifts and leads. No extras on this account shall be payable.
8. Water and electricity shall be arranged by the Contractor. In case it is available, the same can be provided by the College authorities at one point. A recovery @ 1 % for providing electricity and water shall be made by the college authorities on gross value of work done by the contractor.
9. Rates quoted by the contractor shall be inclusive of all items of work listed below and 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 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
10. 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.
11. Labour Camp if required will be arranged by the contractor outside the college premises. However if need be then arrangements can be made inside the premises with the express approval of Principal Shaheed Bhagat Singh College.
12. Principal SBSC New Delhi reserves the right to decrease or increase the items of work up to 100%, change the specifications of works or remove the entire/any section of work as may be deemed necessary to finish the work within the available budget.

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शाहीद भगत सिंह कॉलेज
दिल्ली विश्वविद्यालय
University of Delhi,
सखे सराय-II, नई दिल्ली-110017/
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13. JV or Consortium of Companies will not be accepted.
14. Any subletting of work after the award from the College is not allowed and for any subletting of specialized work bidder needs to take permission prior from College for subletting of specialized works.
15. Any corrigendum will be uploaded on college website or e-procurement portal. Bidders are advised to check for the same. Any corrigendum uploaded, will be considered a part of the Tender Document.
16. Self-attested copy of tender documents will be uploaded on the portal.
17. Bidders registered with Ministry of Micro Small and Medium Enterprises and having valid registration acknowledgement can avail exemption from submission of tender document fee and EMD as per policies of MSME. Bidders taking exemption are required to submit their MSME Certificates, failing of which the bid will be rejected.


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(University of Delhi,
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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.
SECTION V

ACCEPTANCE LETTER
(On Company's Letter Head)

To,
The Principal
Shaheed Bhagat Singh College (SBSC)

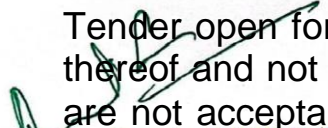
Dear Sir,

I/We have read and examined the following documents relating to tender for Civil works pertaining to Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi.

- 1) Notice Inviting Tender Specifications
- 2) Drawings
- 3) General Conditions of Contract
- 4) Special Conditions
- 5) Tender Schedule

I/We hereby Tender for execution of the works referred to in the aforesaid, documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates quoted by us in the Tender schedule. We have visited and examined the site of works and are fully aware of the site conditions, having a bearing on the contract.

In consideration of I/We being invited to the Tender, I/We agree to keep the Tender open for acceptance for 90 Days from the due date of submission thereof and not make any modifications in the terms and conditions which are not acceptable to Principal, Shaheed Bhagat Singh College (SBSC) ,


Principal (OFFICIATING)
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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College,
University of Delhi.

A sum of Rs. _____/- (Bank Draft No.....Dated.....) is hereby forwarded in Bank Draft in the favor of Principal, Shaheed Bhagat Singh College (SBSC), New Delhi as earnest money. 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, Shaheed Bhagat Singh College (SBSC), New Delhi. I/We agree that Principal, Shaheed Bhagat Singh College (SBSC), 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.

If after the Tender is accepted, I/we fail to commence the execution of the works as provided in the conditions, I/we agree that Principal, Shaheed Bhagat Singh College (SBSC), New Delhi shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely.

I/We agree that should Principal, Shaheed Bhagat Singh College (SBSC), New Delhi. decide to forfeit earnest money as aforesaid, unless a sum equal to the earnest money mentioned above is paid by us forth-with, the principal Shaheed Bhagat Singh College (SBSC), New Delhi may at its option recover it out of the deposit and in the event of deficiency, out of any other money due to me/us or otherwise.

Duly authorized to sign the Tender On behalf of M/s

.....

Signature.....

Dated.....

Postal Address.....


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SECTION VI
AFFIDAVIT / UNDERTAKING

I/We have read and understood the instructions and the terms and conditions contained in the document .I/We do hereby declare that the information furnished/uploaded is correct to the best of my/our knowledge and belief .It is certified that we have not been blacklisted by the Organization Of Government of India including CVC. I /We have neither failed to perform on any agreement nor been expelled from any project or agreement nor have been any agreement terminated for breach during the last seven years .I/We further undertake and confirm that eligible similar work(s) has/have not been got executed through any agency/ firm(s) on back to back basis. Further that ,if such a violation comes to the notice of Department. Then I/We shall be debarred for tendering in SHAHEED BHAGAT SINGH COLLEGE (SBSC) in future forever. Also, if such a violation comes to the notice of department before or after the date of start of work. The SBSC shall be free to forfeit the entire amount of earnest Money Deposit and Performance Guarantee. The undersigned is fully authorized to submit this document on behalf of the organization. We authorize SHAHEED BHAGAT SINGH COLLEGE (SBSC) to approach individuals, employers, firms and corporations to verify our competence and general reputation.

(Signature of the Bidder)

Name and Address of the bidder

Date:

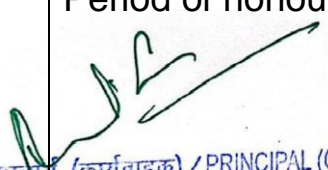

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(University of Delhi,
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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.

SECTION VII


**APPENDIX TO GENERAL CONDITIONS OF CONTRACT SCHEDULE
OF FISCAL ASPECTS**

Name of Work:	Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi.
Defect Liability Period	12 Months after the completion of entire work. During defect liability period of 12 months the contractor will depute their staff for attending all types of construction defects included under the scope of contract and rectify the defects free of cost
Period of Final Measurement and Valuation	Within 1 (One) month from date of handing over the work
Time for Completion	4 months
Agreed liquidated damages	The quantum of LD shall be 1% of the contract sum of the works per week of delay subject to maximum of 10% of contract
Security Deposit Percentage	10% from Gross amount each bill
Refund of Security Deposited after the virtual completion	50% after virtual completion of the works subject to finalization of bill and rest 50% after defect liability period of 12 months, subject to all defects
Period of honouring certificate	75% within 10 days of submission of bill, duly certified by the Site engineer and Architect. Balance within 20 days of submission of bill duly measurement checked and verified by the Site Engineer and certified by Architect.


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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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Mobilisation Advance	Nil
Escalation Clause	Nil as the period of contract is 4 months only.


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(University of Delhi,
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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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University of Delhi.

SECTION VIII
TECHNICAL BID

Online tenders are invited by the Principal, Shaheed Bhagat Singh College, University of Delhi for Civil /Interior works pertaining to the Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi, from reputed contractors who have executed the similar works in the past and fulfil the following criteria:

1. The tenderer must be registered with department of labour for atleast past 5 years.
2. Must be registered with GST
3. Must have permanent account number
4. Must have the certificate/ Letter of applicability of Employees Provident fund & Miscellaneous provisions Act 1952 to the organisation
5. Must produce a solvency certificate from a nationalised bank of upto Rs 1 crore.
6. Must have atleast 10 years of experience of civil and interior work in government departments/ autonomous institutions/public sector undertakings/ government colleges/govt. universities and other government institutions.
7. Must have successfully completed atleast 5 civil/ interior works of Rs 1 crore value or more in government departments/ autonomous institutions/public sector undertakings/ government colleges/govt. universities and other government institutions in last 10 years
8. Must have successfully completed the civil/ interior work in any Delhi University Department(s) /College(s) of Rs. 1 crore value or more in last 10 years
9. EMD and tender fee payment
10. Conditions mentioned in Form A B C
11. Tender Document shall be duly filled signed and stamped on all pages
12. Must have average turnover of Rs. 3 crore in last 3 years

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University of Delhi,
सख्त सराय-II, नई दिल्ली-110017/
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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.

**Please fill the Following Technical bid criteria and write Yes or No
(attach the relevant documents supporting the claim)**

S No.	TECHNICAL BID CRITERIA	YES/NO
1	Must be registered with department of labour for atleast past 5 years.	
2	Must be registered with GST	
3	Must have permanent account number	
4	Must have the certificate/ Letter of applicability of Employees Provident fund & Miscellaneous provisions Act 1952 to the organisation	
5	Must have a solvency certificate from a nationalised bank of upto Rs 1crore	
6	Must have atleast 10 years of experience of civil and interior work in government departments/ autonomous institutions/public sector undertakings/ government colleges/govt. universities and other government institutions	
7	Must have successfully completed atleast 5 civil/ interior works of Rs 1 crore value or more in government departments/ autonomous institutions/public sector undertakings/ government colleges/govt. universities and other government institutions in last 10 years (MENTION DETAILS IN FORM B)	


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 University of Delhi,
 संखे सराय-II, नई दिल्ली-110017/
 Sheikh Sarai, Phase-II, New Delhi-110017

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.

8	Must have successfully completed the civil/ interior work in any Delhi University Department(s) /College(s) of Rs. 1 crore value or more in last 10 years	
9	EMD drafted Submitted	
10	Must have average turnover of Rs.3 crores in last 3 years (MENTION DETAILS IN FORM A)	
11	Form A filled and attached	
12	Form B filled and attached	
13	Form C filled and attached	
14.	Tender Document Filled, Signed and Stamped	

Note: (i) Similar work means “Any Construction or Renovation works consisting of Civil/Electrical/Interior works”. Similar works should be in the name of bidder itself, any work done on sub-contracting or back to back basis will not accepted.

(ii) The tenderer must attach the documents in support of his claim from point 1 to 10 mentioned above failing which the tenderer’s Technical bid is liable to be rejected.

(iii) Technical bid shall be first opened and the financial bid would be opened only of those contractors/tenderers who would successfully qualify the technical bid.

(iv) The college authorities reserve the right to carry- out inspection of similar works carried out by the contractors and the other claims in the technical bid anytime during the process of the tendering.

(v) Tender Document can also be downloaded from the college website www.sbssc.in and Delhi University website www.du.ac.in.

(vi) EMD (Refundable) and Tender document fee of Rs. 1,000 /-(Non-refundable) shall be paid through demand draft drawn in favour of Principal, Shaheed Bhagat Singh College payable at New Delhi (with details mentioned at the back of the draft), deposited to the office of principal before the date of opening of Technical bid in person or through speed post



 PRINCIPAL (OFFICE)

 SBSSC UNIVERSITY OF DELHI

 Shaheed Bhagat Singh College

 दिल्ली विश्वविद्यालय

 University of Delhi,

 सखी सराय-II, नई दिल्ली-110017/

 Sheikh Sarai, Phase-II, New Delhi-110017

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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University of Delhi.
addressed to Principal Shaheed Bhagat Singh College, Sheikh Sarai, new
Delhi-110017

SECTION IX: FORM A,B,C

FORM 'A'

FINANCIAL INFORMATION

I. Financial Analysis – Details to be furnished duly supported by figures in balance sheet/ profit & loss account for the last three years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Copies to be attached).

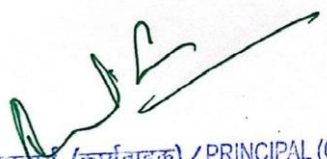
Years

SNo.	2018-19	2019-20	2020-21
Turnover			
Profit and Loss			

- (i) Gross Annual turnover on construction works.
- (ii) Profit/Loss.

II. Financial arrangements for carrying out the proposed work.

NOTE: - Average Annual Financial turnover for similar work


SBSC-UP (कार्यवाहक) / PRINCIPAL (OFFICIATING)
Signature of Bidder(s).
Shaheed Bhagat Singh College
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University of Delhi,
Sheikh Sarai-II, नई दिल्ली-110017/
Sheikh Sarai, Phase-II, New Delhi-110017

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh

College,

University of Delhi.

FORM 'B'

Details of Eligible Similar Nature of Works Completed During the Last 10 Years Ending Previous Day Of Last Date Of Submission Of Tenders

S. No.	Name of work/ project and location	SBSC or sponsoring organization	Cost of work in Rupees	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation/arbitration cases pending/in progress with details*	Name and address/ telephone number of office/department
1	2	3	4	5	6	7	8	9

* Indicate gross amount claimed and amount awarded by the Arbitrator.

Signature of Bidder(s)


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 University of Delhi,
 संखे सराय-II, नई दिल्ली-110017/
 Sheikh Sarai, Phase-II, New Delhi-110017

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
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University of Delhi.

FORM "C"

STRUCTURE & ORGANISATION




1. Name & address of the bidder
2. Telephone no./Telex no./Fax no. & Email id
3. Legal status of the bidder (attach copies of original document defining the legal status)
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited company or Corporation
5. Names and titles of Directors & Officers with designation to be concerned with this work.
6. Designation of individuals authorized to act for the organization
7. Has the bidder, or any constituent partner in case of partnership firm Limited Company/Joint Venture, ever been convicted by the court of law? If so, give details.
9. Any other information considered necessary but not included above.

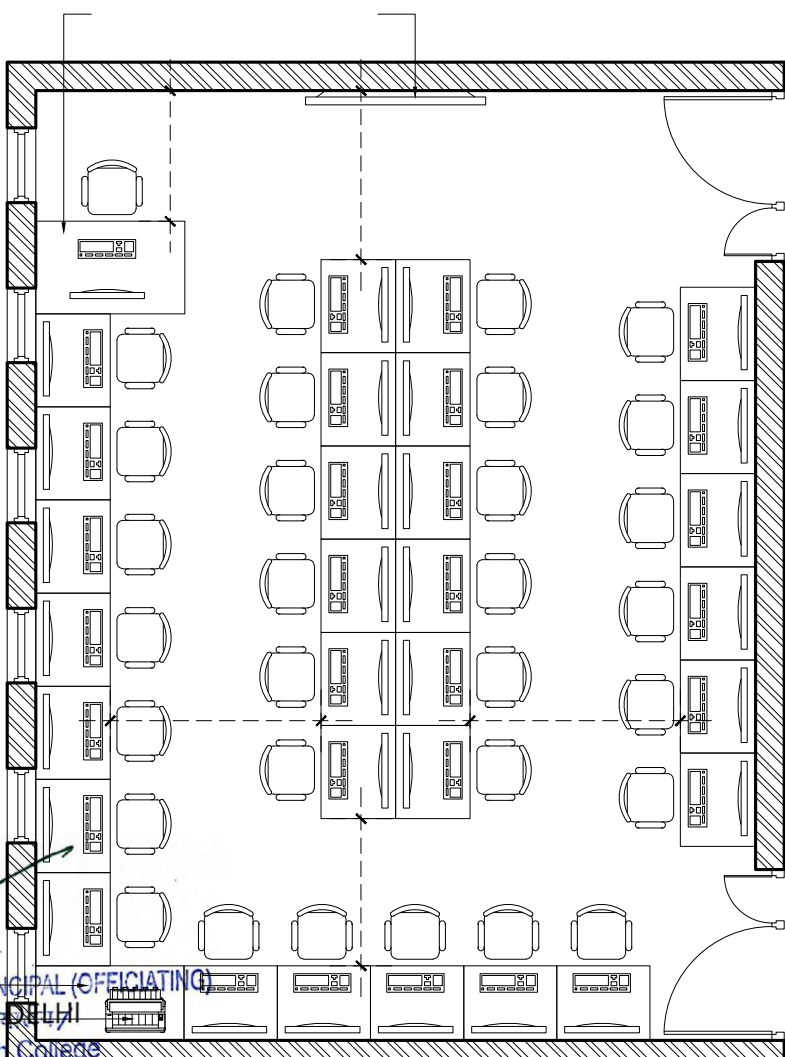
Signature of Bidder(s)


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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College,
University of Delhi.

SECTION X: DRAWINGS (ANNEXURE A) (For details check additional documents)

								<input type="checkbox"/> FOR TENDER PURPOSE	<input type="checkbox"/> ADVANCE COPY
								<input checked="" type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> GOOD FOR CONSTRUCTION



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University of Delhi,
सखी सराय-II, नई दिल्ली-110017
Sheikh Sarai, Phase-II, New Delhi-110017

36 (SIGN AND STAMP OF THE TENDERER)

Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh
College,
University of Delhi.

SECTION - XI: LIST OF APPROVED MAKES

**ANNEXURE: B LIST OF APPROVED MAKES
FOR CIVIL & FINISHING WORKS**

S. No.	Details of Materials / Equipment	Manufacturer's Name
--------	----------------------------------	---------------------

A.CONCRETE

1. Concrete Admixtures
Sika, BASF
Fosroc,
2. Cementitious non shrink
Sika,CICO
Fosroc,
3. Grey Cement (OPC) Grade43/53
JK/Birla/Shree Cement or equivalent Approved
Ambuja, ACC,
4. Integral Water Proofing Compound
Fosroc, Sika, Dr. Fixit
5. Reinforcement Steel
TATA, SAIL, VIZAG
6. Structural Steel/ hollow tube section
VIZAG
TATA, SAIL,
7. Anti-Termite Treatment Buildings
ifostc, Dhanvka
Dusban TC, Chlorpyr-
8. Anchor fasteners
Hilti, Fischer, Anchor-man
9. SBR Latex
Fosroc, BASF, Rouf

Principal (कार्यवाहक) / PRINCIPAL (OFFICIATING)
SHARAD KUMAR
Shahad Bhagat Singh College
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B. DOORS & WINDOWS

- | | |
|--|---------------------------|
| 1. Fire door
TATA | Navair, Adhunik, Balco, |
| 2. Aluminium Sections | Jindal, Hindalco, Jindal |
| 3. Glass
Asahilndia | Saint Gobain, Modi float, |
| 4. Glass wool | Up Twiga, Ilyod |
| 5. Ply & Boards/ Flush door shutters / Block boards
Kitply, Century | Greenply, |
| 6. Pressed Steel Door / Windows Frames & Shutters
Anand Windows (New Delhi) | Perfect, Agew, |
| 7. Hardware (Door Fittings or Door Lock)
Ozone | Door set, Dorma, |
| 8. Adhesives | Araldite, Fevicol SH |
| 9. EPDM Gasket | Dow Cornings |
| 10. Veneers 3/4"
Anchor | Euro, Greenply, |
| 11. Laminates 1mm and 1.5 mm
Kitply | Greenlam, Century, |
| 12. ACP Panels | Alucobond, Alstrong |

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Dorset, Godrej, Ozone

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- | | |
|--|-------------------------|
| 14. Hydraulic Door Closer | Dorset, Everite, Ozone |
| 15. Floor Spring | Dorma, Everite, Geze |
| 16. Patch Fittings | Ozone, Enox, Zaha |
| 17. Glass door Handles | Kich, Dunex, Dorma |
| 18. Mortice | Godrej, Dunex, Kich |
| 19. Handles | Dorma, Dorest, Ozone |
| 20. Pre-laminated Particle board
Archid ply | Green ply, Century ply, |

C. FINISHING

- | | |
|---|--|
| 1. Cement Paint
Nitcocem, Asian | Super Snowcem, |
| 2. PAINTS - Plastic Emulsion / Acrylic Emulsion / Syntheti
Paints
Enamel OBD / Luster | c: Asian
ICI
Berger |
| 3. External Paint
Ultima
shield Max | Asian Apex
ICI Dulex weather-
Berger Weather- coat |
| 4. Epoxy Paint | Asian, Berger, MRF |

long life

4. Epoxy Paint

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BASF, Berger, Asian

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7. Thermo Plastic Paint Shalimar, Asian,
BASF

8. Primer / PUTTY Birla, JK, ICI

9. Wood preservative Wood guard,
Termiseal, MRF

10. Fire retardant paint BASF, Noble, Firetard

11. False Ceiling (Calcium Silicate Board), Accessories Arm-strong ,
Ramco

India Gypsum
Saint Govin

12 Board Partition (Calcium Silicate Board) Ramco
India

Gypsum Saint Govin

13 Silicon Sealant Dow Corning
Wacker
GE

14 Poly-sulphide Sealant Fosroc, Dr. Fixit
Choksey Chemicals

15 Gypsum Plaster St. Gobain, Birla,
Dudhi

16 Gypsum Board India Gypsum, Boral

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Magnum, Dorma, Jindal

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D. FLOORING

- | | |
|--|-----------------------|
| 1. Ceramic / Vitrified Tile
Kajaria, Somani | H & R Johnson, |
| 2. PVC Vinyl Flooring | Armstrong, RMG, Bhor |
| 3. Paper Block | GICO, Tulsi |
| 4. White Cement | Birla White, JK White |
| 5. Laminated Wooden Floor/Skirting | Vista, Pergo |

D. ROOFING

- | | |
|--|-------------------------------|
| 1. Galvalume Precoated
Multi Colour | TATA BLUE SCOPE,
Interarch |
| 2. GI Fittings | R' Brand, Unik |
| 3. GI Pipes | Tata, Surya, Jindal |
| 4. Polycarbonate Sheet | LEXAN, Lloyd, GE |

ELECTRICAL WORKS

S.no	Equipment / Material	Approved Makes
A	Distribution Boards MCB / ELCB / RCCB / MCB / Isolators	Legrand / Schneider / Siemens / Hager

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- Distribution Boards : Legrand / Schneider / Siemens / Hager
- Enclosure for MCB / ELCB / Isolator : Legrand / Schneider / Siemens / Hager
- Sub-Meters (Digital Type) with / without built-in selector switch : Conzerv / Secure / L&T
- B. LT Cables, Mains & Sub-mains**
- Aluminum Conductor Armoured / Unarmoured Cable : Finolex / Gloster/ Polycab
- Copper Conductor Armoured / Unarmoured Cable : Finolex / Gloster/ Polycab
- Copper Conductor Armoured / Unarmoured Control Cable : Finolex / Ralison / Polycab
- Single core unsheathed copper wires : Finolex / Gloster/ Polycab
- Thimbles & Lugs : Dowells / Action or Equal
- Brass Glands : Comet / Gripwell / Electromec or Equal
- C. Earthing(Maintenance free)**
- GI / Copper Earth Tapes : As per Specifications (Copper earth tapes to have conductivity not less than 85%)
- GI / Copper Earth Pipes : As per Specifications (Copper earth tapes to have conductivity not less than 85%)
- GI / Copper Plates : As per Specifications (Copper earth tapes to have conductivity not less than 85%)


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- GI / Copper Pipes : As per Specifications
(Copper earth tapes to have conductivity not less than 85%)
- GI Pipe : TATA / Jindal Hissar / Surya
- D. Conduits and Wiring**
- MS Conduits / Accessories : BEC / STEEL KRAFT/ RM CON
(ISI Marked)
- PVC Conduits : Indiana / Polypack / AKG
(2 mm Wall Thickness)
- FR PVC Insulated Copper Wires : Rallison / KEI / Finolex / Polycab or Equal
- E. Receptacles**
- Switch, Socket Outlet and Receptacle : Legrand (Myrius Series) / MK India (Blenze)/ Clipsal - Zencelo or equal / Anchor(Sample & Colour to be approved by SBSC / Architect)
- F. Telephone System**
- Telephone Armoured Cable : Skytone / Delton / Finolex/Polycab
- Telephone Wires : Skytone / Delton / Finolex/Polycab
- TV Co-axial Cable : Skytone / Delton / Finolex/Polycabb
- Cat VI Cable : Legrand / Panduit(Pannet) / Siemon
- Patch Panel : Legrand / Panduit(Pannet) / Siemon
- Patch Cord : Legrand / Panduit(Pannet) / Siemon
- Racks : Legrand / Rittal / APW
- Telephone Tag Boxes : Krone in Metal Enclosure

G. Lighting Fixtures &

Lamps


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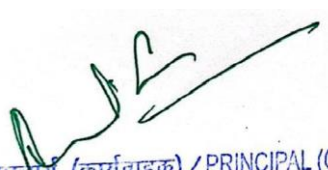
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- Light Fixtures : Philips / Bajaj / Osram
- Lamps : Philips / Bajaj / Osram
- H** UPS ABB / Bemic / Schneider

- I** CCTV Tyco / Pelco / Axis

- J** Fire alarm system Honey well / jhonsan / Notifier
- K** Motorized Screen Benq/Epson/Vivitek
Brightness of 3500
Lumens,WXGA (1280
x 800) Native
Resolution,1.21 to
1.57:1 Throw
- L** Ratio,VGA, Composite,
S-Video, 2x HDMI
Inputs,Integrated 10-
Watt Speaker,Ethernet
& RS-232 Controllable Benq/Epson/Vivitek

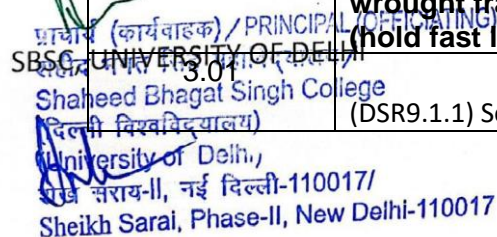
**Note : - The College reserves the rights to change the list of
“Approved Makes” if need be.**


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Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College,
University of Delhi.

Tender No.	SBSC/500 dated 4th August, 2022
Project Name	Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College, University of Delhi.
*Note :- For rates of item refer BOQ.	

Sl. No.	Item Description
1	2
1	<p>Part - I (Civil Work)</p> <p>BRICK WORK</p> <p>(DSR 6.4) Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :</p>
1.01	(DSR 6.4.1) Cement mortar 1:4 (1 cement : 4 coarse sand)
2	(DSR 6.13) Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.
2.01	(DSR 6.13.2) Cement mortar 1:4 (1 cement :4 coarse sand)
3	<p>WOOD AND PVC WORKS</p> <p>(DSR9.1) Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).</p>
3.01	(DSR9.1.1) Second class teak wood


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4	<p>(DSR9.7) Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :</p> <p>(DSR9.7.7) Float glass panes</p>
4.01	(DSR 9.7.7.2) 5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).
5	<p>(DSR 9.21) Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:</p>
5.01	(DSR 9.21.2) 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws
6	(DSR 9.23) Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).
7	<p>(DSR 9.24) Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):</p>
7.01	(DSR 9.24.1) Rectangular or square
8	<p>(DSR 9.40) Providing and fixing wooden moulded beading to door and window frames with iron screws, plugs and priming coat on unexposed surface etc. complete :</p> <p>(DSR 9.40.1) 2nd class teak wood</p>
8.01	(DSR 9.40.1.1) 50x12 mm
9	<p>(DSR 9.96) Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete</p>
9.01	(DSR 9.96.1) 300x16 mm
10	<p>(DSR 9.97) Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :</p>

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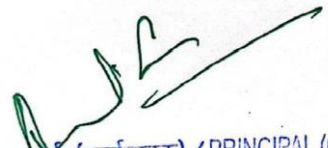
Renovation of Existing Classrooms into Computer Labs at Shaheed Bhagat Singh College,
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10.01	(DSR 9.97.1) 300x10 mm
11	(DSR 9.100) Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :
11.01	(DSR 9.100.1) 125 mm
12	(DSR 9.10) Providing and fixing factory made laminated veneer lumber glazed shutter conforming to IS: 14616 and TADS 15:2001 (Part B), using 4 mm thick float glass panes for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, all as per directions of Engineer-in-charge (Note:- Butt hinges and necessary screws shall be paid separately)
12.01	(DSR 9.10.1) 30 mm thick shutters
13	(DSR 9.83) Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete
14	(DSR 9.147A) Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable.
14.01	(DSR 9.147A.2) Casement window double panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (small series) frame 47 x 50 mm, sash 47 x 68 mm & mullion 47 x 68 mm all having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window above 0.75 sqm upto 1.50 sqm).


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15	(DSR 9.127) Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.
15.01	(DSR 9.127.1) 1.5 mm thick
16	Flooring (DSR 11.41 A) Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. (DSR 1.41A.1) Double charge vitrified tile polished finish of size Rate
16.01	(DSR 11.41A.1.1) Size of Tile 600 x 600 mm
17	(DSR 11.47) Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).
17.01	(DSR 11.47.2) Size of Tile 600x600 mm


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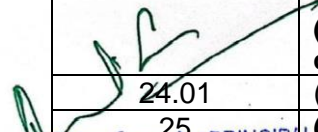
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18	<p>Roofing</p> <p>(DSR 12.45) Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>
18.01	<p>(DSR 12.45.1) 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)</p>
19	<p>(DSR 12.58) Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p>


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19.01	(DSR 12.58.1) 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.
20	FINISHING WORKS
20.01	(DSR 13.26) Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.
21	(DSR 13.41) Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :
21.01	(DSR 13.41.1) New work (two or more coats) over and including water thinnable priming coat with cement primer
22	(DSR 13.83) Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.
22.01	(DSR 13.83.2) Two or more coats on new work
23	Repair Works (DSR 14.1) Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge
23.01	(DSR 14.1.1) With cement mortar 1:4 (1 cement : 4 fine sand)
24	Demolishing (DSR 15.7) Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.
24.01	(DSR 15.7.4) In cement mortar
25	(DSR 15.12) Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead : Of area 3 sq. metres and below
25.01	(DSR 15.12.1) Of area 3 sq. metres and below


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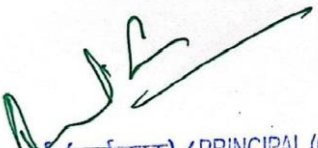
26	(DSR 15.25) Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.
26.01	(DSR) Flooring
27	(DSR 15.6) Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.
28	MARKET RATE ITEMS
29	Providing and fixing vertical blinds 100mm Louver width, quality of approved make fabric made of 100% polyester woven fabric thickness 0.40mm with Acrylic coating resistance to Cracking & Fraying and treated for dust repellency, UV proof , virtually maintenance free having plastic bottom chain thickness of chain-0.50mm and diameter-3mm, Plastic with metal bottom weight - 116.20mmX48.30mm and suitable coating on exterior, including all fixtures and fittings complete in all respect as per design/color/shade including requisite installation brackets etc as required for installation at site with anchoring arrangements complete as directed.
30	Supply and Installation of a white base board marker having minimum size of SIZE 1800*1200MM.
31	Supply and Installation of fabric wrap around pinup board. The top fabric color to be as per the choice of engineer in charge.


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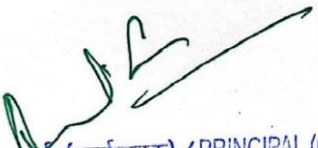
Supply, Installation and commissioning of factory made modular type of Workstation table of having minimum size 750mmx600mm, Main Panels Construction (Front and End panel of each cluster) - Main Partition panel having 4 horizontal blocks and consists of Vertical extrusions
2Nos and Horizontal extrusions 5 nos made of 1.2mm thick aluminium with duly powder coated at every division of tile/block. Each panel shall have Bottom frame fabricated for 52.4mm panel comprises of 2 nos. L-channels made of 2mm thick CRCA (Cold Rolled, Cold Annealed) steel (IS: 513), formed plates of 3mm thick Hot Rolled steel (IS: 2062) & ERW steel tube of size 35x15x1.6mm thick in oval cross section (IS: 7138) welded together. The complete bottom frame shall be powder coated with an average of 50-60 microns thickness of epoxy powder coating. The Bottom Frame is bolted with the Upright verticals. Each Panel is provided with 2Nos Legs of height 120mm are fixed at the bottom frame of the panel. Legs Construction- Legs are fabricated by CO2 welded MS Tube of section 38mm x 25mm x 16 swg (IS: 7138) with the base plate of the Hot Rolled MS plate of 35x22x5mm (IS: 2062) over which an M8Leveller is fitted which allows for adjustment of the height by 50mm. It will be coated with 45-50micron thickness of epoxy powder coating. Each Panel consists of 2Nos Intermediate blocks. Intermediate Blocks- In a 52.4mm Thick panel intermediate block shall comprise of 38mm thick paper honeycomb with 3mm MDF on each sides and 0.6mm decorative laminate on both sides. Particle board framing shall be used on outer boundary of these blocks as well as intermediately at certain locations forming conduit for passing cables, if required as per the instructions of Engineer-in-charge. These blocks will be located in the middle bands of the panels made out of a composite construction of MDF and paper honeycomb. Top Block- Each Panel


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Supplying and Placing in position factory made Modular type Faculty Table of following Specifications. Overall Dimension of the Main Desk Shall be - 1500mm x 600mm The system shall be a desk-based system with a platform understructure made up of a combination of MS. Tubes and plates. The product should be Greenpro certified and should be listed in Griha product catalogue in the following category GRIHA V.3 criteria: 34; GRIHA V.2015 criteria: 31 & SVAGRIHA criteria: 14. Understructure - The slanted legs are connected to the understructure with the help of PDC Connectors to provide a stable and sturdy base for the worktops. Modesty panel shall be of Acrylic (8 mm thick Acrylic both side frosted) or of Metal 1.2 mm thick CRCA. Worktop - Worktop shall be made of 25MM thick Pre-Laminated Board conforming to IS: 12823. All the edges of work surface shall be provided with machine pressed 2 mm thick PVC lipping glued with hot melt EVA glue. The worktop shall be complete with provisions for screen mounting as well as for wire management on the workstation. Provisions for fixing of the switches shall be on the wire tray/channel. A Wire Management - It shall be a part of the understructure and can be in the form of enclosed metal tray or 2 level enclosed channel to provide concealed wire management throughout the cluster formation. Wire riser leg or independent wire risers shall be provided as per the layout structure. Access flaps with soft closing technology shall be provided on the table tops to access the switch points on the tray. Pedestal having 3 Drawers Unit having flat metal front and top with Central locking. The Drawer Unit consists of 2Box and 1File Drawers. The Overall size of the Drawer Units is 450mm(W) X 435mm(D) X 646mm(H). Construction & Material of Drawer Unit :Welded Assembled of 0.8mm thick CRCA for Body Shell, Drawer Front & tray, Front Side Stiffener, Rear Side Stiffener & Bottom, 1.2mm thick CRCA Top Stiffene, Bottom stiffener, Drawer Fronts & Metal Front Straight Edge. All Drawers with Double extension precision ball slide shall be provided. For Drawer pulling, side wise tapered recess provided in shell behind Drawer Fronts. Locking:10 lever Cam Lock & Central RH locking with actuator & lock channel mechanism. Top Panel : 0.8mm thick Metal Straight Edge Top. Castors : Swiveling non-lockable 4Nos Castors mounted below the body shell. The Total drawer unit is finished with Epoxy Polyester Powder coated to the thickness of 50 microns (+/-10). The product should be complete and as per approved sample and as per the direction of Engineer-In-charge. Company should be ISO-9001, 14001, 18001, 45001, 50001, Greenguard(UL), BIFMA and AIOTA. Product should be BIFMA Level2 certified.


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34	<p>Supply, Installation in place factory made modular type cushioned seat assembly consists of seat base moulded in glass-filled Poly-amide, moulded Polyurethane foam & upholstered with high stretch knitted polyester fabric. The cushioned back assembly consists of back inner moulded in Polypropylene in-situ moulded with Polyurethane foam & upholstered with high stretch knitted polyester fabric.* Full Back Size : 45.5 cm. (W) x 53.0 cm. (H) *Seat Size :48.5 cm. (W) x 47.0 cm. (D)The HR polyurethane foam used in seat and back cushion is moulded in Density 45±2 kg/m³, and hardness load 16 ± 2 kgf as per 15:7888 for 25% compression.The seat and back are firmly connected to the base frame and are cantilevered in such a way that it gives a multi-dimensional movement possibility just with a simple lean on the sides or back, without need for complex manual adjustments. The cantilevered seat offers impact cushioning while sitting and synchronises with the back movement during posture changes. The "5" shaped spines moulded in high strength glass-filled Poly-amide and the spine connector moulded in glass-filled Poly-am)de form the back-spine structure involved in multi-dimensional recline motion.The variable tilt angle recline motion can be adjusted with 3 position Tilt Limit feature which is inbuilt in seat base and the tension (return force) is user weight dependent.The assembly consists of armrest housing sliding over the armrest structure, both moulded in glass-filled Poly-amide. The height adjustment feature is button operated having adjustment of 6.6±0.5cm. The Armrest Top is made up of integral skin PU moulded over plastic inner moulded in glass-filled Poly-amide.The seating height can be adjusted with a pneumatic gas-lift having an adjustment stroke of 9.2 ± 0.3 cmThe pedestal is injection moulded in glass-filled Poly-amide and fitted with 5 nos. in wheel castors. The pedestal is 66.0±0.5 cm. pitch centre diameter and 76.0±1.0 cm. with castors.5 nos. twin wheel castors are injection moulded in Poly-amide having 5.0±0.1cm heel diameter and assembled to the pedestal. Company should be ISO-9001, 14001, 18001, 45001, 50001, Greenguard(UL), BIFMA and AIOTA. Product should be Greenguard(UL) and Bifma Level-2 certified.</p>
35	<p>Part - II (Electric Work)</p> <p>DISTRIBUTION BOARDS & UPS INPUT/OUTPUT BOX</p> <p>(DSR 2.3)Supplying and fixing of following way,single pole and Neutral sheet steel, MCB Distribution board ,240V,on Surface / recess ,complete with tinned copper bus bar, neutral bus bar, earth bar, din bar interconnections ,powder painted including earthing etc, for mounting MCBs (but without MCBs and incomer) as required</p>
35.01	<p>(DSR 2.3.4) 16 Way double door</p>
36	<p>(DSR 2.5) 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</p>


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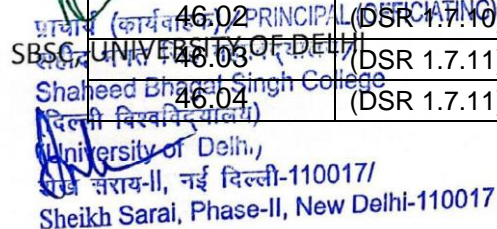
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36.01	(DSR 2.5.2) 8 Way , (4+ 24), double door
37	(DSR 2.10) Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.
37.01	(DSR 2.10.1) Single pole
37.02	(DSR 2.10.4) Tripple pole(32A out going from DB to UPS input box)
38	(DSR 2.14) Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.
38.01	(DSR 2.14.3) 63 A
39	(DSR 2.15) Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), complete with connections, testing and commissioning etc. As required.
39.01	(DSR 2.15.3) 63 A
40	Supplying ,fixing ,testing and commissioning of the following MCBs in sheet steel enclosure. For Ups Input & Output
40.01	40A 4P MCB in sheet steel enclosure surface mounted on the wall along with incoming & outgoing Cable Box, suitable for Termination of Aluminium / Copper Cable. (For Ups Input)
40.02	63A DP MCB in sheet steel enclosure surface mounted on the wall along with incoming & outgoing Cable Box, suitable for Termination of Aluminium / Copper Cable. (For Ups output)
41	CABELS / MAINS Supply of 1100V grade armoured cable having sector / circular shaped aluminium / copper conductor PVC insulated cores under ground PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed / XLPE power cable of the following sizes. laid on wall or ceiling using GI clamps and spacers as required.


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41.01	25 Sq.mm 4 core copper cable
41.02	10 Sq.mm 3core copper cable
41.03	6 Sq.mm 4core copper cable
42	(DSR 7.5) Laying,testing and commisssoning of 1100V grade armoured cable having sector / circular shaped aluminium / copper conductor PVC insulated cores under ground PVC tape wrapped inner sheathed, GI strip / wire armoured and overall extruded PVC sheathed /XLPE power cable of the following size in the existing RCC/HUME/Metal pipe as required.
42.01	(DSR 7.5.1) Up to 35 sqmm
43	Supply & fixing of end termination for above mentioned cables including compressed type brass glands, crimping type coper lugs, insulation tape etc. as 'required complete with earthing of glands in following sizes
43.01	25 Sq.mm 4 core copper cable
43.02	10 Sq.mm 3core copper cable
43.03	6 Sq.mm 4core copper cable
44	WIRING Point wiring for light point /Fan/Exhaust Fan point/ call bell point using 2 runs of 1100 V grade 1.5 sqmm & one run of 1.5 sq.mm FRLS insulated multistranded copper wires, in & including 25 mm dia , MS conduit surface/ concealed in wall / ceiling conforming to IS 732 including all accessries such as junction boxes , conduit bends, elbows and ceiling rose , and anodised GI switch box with modular switch ,modular plate and the box covered with front plate
44.01	(DSR 1.3.3) One light point controlled by one 6A switch
45	(DSR 1.54.3) Secondary light point controlled by same switch
46	(DSR 1.7) Wiring for Submain wiring alongwith earth wire with following sizes of FRLS PVC insulated copper conductor,single core cable in surface/recessed MS conduit as required. (For lighting controoled by MCB+Circuit wiring+6A raw power plug).
46.01	(DSR 1.7.5) 2 X 10 sq. mm + 1 X 6 sq. mm earth wire
46.02	(DSR 1.7.10) 4 X 10 sq. mm + 2 X 6 sq. mm earth wire
46.03	(DSR 1.7.11) 4 x 16 sq. mm + 2 x 6 sq. mm earth wire
46.04	(DSR 1.7.11) 4 x 25 sq. mm + 2 x 16 sq. mm earth wire(in existing MS Conduit)


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47	(DSR 1.3.3) Exhaust fan point including of ceiling rose near fan.
48	(DSR 1.7) Wiring for circuit wiring alongwith earth wire with following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed MS conduit as required. (For lighting controled by MCB+Circuit wiring).
48.01	(DSR 1.7.1) 2x1.5sqmm+1x1.5sqmmearth wire
49	(DSR 1.4) Wiring for twin control point wiring using 1.5 sqmm copper conductor FRLS PVC insulated copper conductor cable drawn through 25 dia MS conduit laid in surface/concealed over false ceiling or in slab/wall chases including ,2way modular switches, modular plate , suitable GI box and earthing the point with 1.5 sqm FRLS PVC insulated copper conductor single core cable as required
50	(DSR 1.5) Wiring for light/power plug using 2 run of 4sqmm, 1100 V grade with one run of 4 sqmm green colour for earth continuity conductor FRLS PVC insulated wires drawn through MS conduit laid concealed over false ceiling or in slab/wall chases including circuit wires from the relevant DB .
51	(DSR 1.17) Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable recessed steel/ PVC conduit as required.(for 6A / data plug point wiring)
51.01	(DSR 1.17.12) 3 x 2.5 sqmm
51.02	(DSR 1.17.15) 6 x 2.5 sqmm
52	(DSR 1.19) Supplying & Drawing Co-axial TV Cable rg-6 grade,.7 mm so.id copper conductor PE Insulated, shieldwd with fine tinned copper braid and protected with PVC sheath in the existngf surface / recessed steel / PVC Conduit as required
53	(DSR 1.31) Supplying & fixing suitable size GI Box with modular plate and cover in front on surface or in recess, including providing and fixing 3pin 5/6A modular socket outlet and 5/6A modular switch ,connections etc.as required. (On raw power)
54	(DSR 1.25) Supplying & fixing two module stepped type electronic fan regulator on existing modular plate switch box including connections but excluding modular plate etc. as required.


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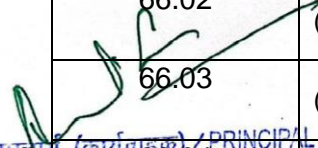
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55	(DSR 1.32) Supplying & fixing suitable size GI Box with modular plate and cover in front on surface or in recess, including providing and fixing 6pin 5/6&15/16A modular socket outlet and .15/16A modular switch ,connections etc.as required. (On raw power)
56	(DSR 1.24.4+1.24.1) Supply & fixing of 2nos.6A modular type switch and 1no 6A socket in same box with fixing mounting plate complete as required.(For data point)
57	(DSR 1.27) Supplying & fixing following size /modules,GI box alongwith modular base &cover plate for modular switches in recess etc as required .(For data point)
57.01	(DSR 1.27.4) 6Module(200mm x 75mm)
58	(DSR 1.24) Supplying and fixing following modular switch/socket on the existing modular plate and switch box including connections but excluding modular plate etc.as required.
58.01	(DSR 1.24.6) .Telephone socket Outlet .
58.02	(DSR 1.24.7) .TV antenna socket Outlet .
59	LIGHTING FIXTURES & FANS Supplying of the lighting following lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by Engineer-in-Charge.
59.01	1x 40Wsurface mounted LED Lamp(Batten light)
59.02	2'x2' recessed type fitting with 36W LED Lamp.(Panel light)
60	(DSR -1.35) Installation, testing and commissioning of wall bracket /ceiling fittings of all sizes and shapes containing upto two GLS/CFL/LED lamps per fitting, complete with all accessories including connections etc. as required.
61	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete of approved as required confirming to IS 374/2019 with upto date amendments.


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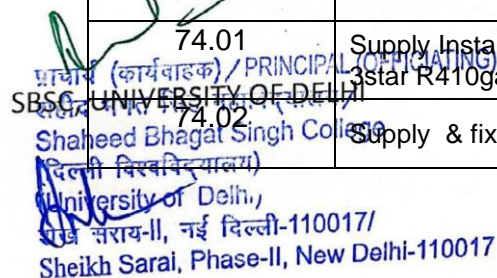
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61.01	Ceiling Fan (ISI marked)-1200 mm Sweep, with minimum air delivery 210 m ³ /min and service value ≥ 4.00 as per BEE..
62	(DSR DSR -1.45) Installation ,testing and commissioning of ceiling fan ,including wiring the down rods of standard length (up to 30cm) with 1.5sq.mm FRLS PVC insulated ,copper conductor,single core cable ,including providing and fixing phenolic laminated sheet cover on the fan box etc.as required.
63	EARTHING (DSR 5.5) Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.
64	(DSR 5.8) Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm)
65	(DSR 5.19) Providing and fixing 4.0 mm dia copper wire on surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/cables as required .
66	WIRING FOR DATA OUTLETS & CCTV (DSR 1.21)Supply and fixing the following sizes of PVC medium duty ISI marked conduits (IS : 9537 Part-III) complete with accessories such as bends, junction boxes, pull boxes etc., in recess or on surface including cutting chases in the walls/floors and making good the same complete as required.
66.01	(DSR 1.21.1) 20 mm dia .
66.02	(DSR 1.21.2) 25 mm dia .
66.03	(DSR 1.21.3) 32 mm dia .
66.04	(DSR 1.21.5) 50 mm dia .


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67	(DSR 1451) Supply, laying, installation, testing and commissioning of Cat-6 4Pair UTP Data Cable 23 AWG in existing conduits/raceway/furniture.
68	Supply & fixing of Plug in type RJ45 computer data outlet in GI box & cover plate in wall/furniture/floor complete as required.
69	Supply and fixing of the following types Face Plates complete with all accessories.
69.01	0Supply & fixing of Single Face Plate
70	(DSR 1.18.2) Supply ,laying ,installing , testing and commmissioning of the 2 pair 0.61 mm annealed copper conductor PVC insulated and PVC sheathed telephone wire in existing pipe as required and includig making terminal joints, complete as required.
71	Supplying, installing, testing and commissioning of 24 port Cat 6 patch panels available with block of four equipped with tool less IO, Rack Mountable. 19" Modular Patch Panel, loaded CAT6 U/UTP 24 port LCS2 rack mountable to be compatible in 4nos of 6 X RJ 45 Tool less connector U/UTP unit in a block.
72	Supply, Installatin, Testing & Commissioning of IP Dome Camera
72.01	Supply, Installation testing and commissioning of the IP bullet camera shall be equipped with a 1/2.8 2 MP progressive scan CMOS imager to capture full HD 1080p (25/30 fps) images, a 3.6 mm fixed lens, and a waterproof (IP66) enclosure. As a true day/night solution, the camera shall use smart IR technology and provide up to 98 ft (30 m) of IR illumination. The camera shall accept PoE (802.3af) or 12 V DC power input. min. illumination:-0.1 lux @F1.2, AGC ON, 0 lux with IR video compression :- H.264, noise reduction: 3DNR,backlight compensation :-BLC/HLC/DWDR, encode mode:-CBR/VBR (freely adjustable in CBR, 5 levels in VBR)
73	UPS AND BATTERY RACK. Supply, unloading, shifting, installation, testing & commissioning of micro processor controlled following rating UPS capable of operating in parallel redundant mode so that if any one UPS fails the other can supply 100% load, IGBT based rectifier to achieve input THDI < 4% and input power factor of greater than 0.99 at 100% loading with 3 level Inverter Topology. True Online Double Conversion (VFI as per IEC 62040-3) UPS using PWM IGBT technology , 3 Phase input and single phase 230 V+/-1% output UPS system; and comprising of the following complete as required and as per specification:
74	AIR CONDITIONING WORKS
74.01	Supply Installation Testing & commissioning of 2.0 TR wall mounted type Split Air conditioner conditioners (Make -Mitsubishi 3star R410gas)
74.02	Supply & fixing of stand suitable for 2.0 TR wall mounted type Split Air conditioner conditioners.


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74.03	Supply & fixing of Interconnecting Power,Control cable Copper Pipes , duly insulated with closed cell elastomeric nitride tube insulation and 25mm dia rigid drain pipe suitable for 2.0TR Split Type AC
74.04	Supply & Installation of Slim Wall Mounted Automatic Voltage Regulator copper wound input Voltage range 160-260V output Voltage 230 +/-10% (Make -Microtek) Nominal capacity 5.0 KVA
75	PROJECTOR
75.01	Installations & Commissioning of Brightness of 3500 Lumens,WXGA (1280 x 800) Native Resolution,1.21 to 1.57:1 Throw Ratio,VGA, Composite, S-Video, 2x HDMI Inputs,Integrated 10-Watt Speaker,Ethernet & RS-232 Controllable
75.02	Installations & Commissioning of 100 inch Motorize Screen with necessary fittings and fixtures
75.03	Supply, Installations & Commissioning Gold Plate HDMI cable 10 mtr


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