

# **TENDER**

**NOTICE INVITING TENDER FOR CIVIL,  
ELECTRICAL& REPLACEMENT OF  
WATER SUPPLY AND SANITARY LINES,  
FITTING & FIXTURES FOR REPAIRS OF  
TOILETS AND WATER-PROOFING OF  
SUNKEN FLOORS, AT MATA SUNDRI  
COLLEGE FOR WOMEN, MATA SUNDRI  
LANE NEW DELHI**

**(E- Tenders in 2 BID SYSTEM)**



# MATA SUNDRI COLLEGE FOR WOMEN

UNIVERSITY OF DELHI  
MATA SUNDRI LANE, NEW DELHI-110002

PHONE: 23237291



**Ref. No:** MSC/ADMN/312/2021-2010

**Dated:** 26..03.2021

## NOTICE

Online E-tenders, in two bid system (technical & financial bid), for the work of Civil, electrical and water supply & sanitary works for repairs of toilets & water proofing of sunken floors, in old building at Mata Sundri College for Women, University of Delhi are invited from eligible reputed contractors who have satisfactorily executed similar works during last seven years and having financial capacity for execution of the work. Manual bids shall not be accepted.

Tender documents may be downloaded from college website: <https://www.mscw.ac.in> as well as from the NIC portal <https://eprocure.gov.in/eprocure/app>

Name of Work	E Cost	Earnest Money	Time of Completion	Cost of tender Document (Non-refundable)
Civil, Electrical, Water Supply & Sanitary, Work for repairs of toilets, Work for repairs of toilets, & water proofing of sunken Floors in old building.	Rs 2572100/-	Rs 64000/	90 days	Rs.1000/

### **Eligibility Criteria**

1. Shall have executed similar works costing 21 lakhs one work or two works of 15.5 lakhs each or 3 works of 10.25 lakhs each during the last 3 years.
2. Submission of Turnover Certificate of Rupees 30 Lakhs or more during the last three years (Annexure 1)

### **Bid Submission**

1. Tender document can be downloaded from the website of CPPP Portal <https://eprocure.gov.in> & college website <https://www.mscw.ac.in>
2. Tender shall be uploaded in two parts, viz., Technical bid and Price bid at eprocure web site of CPPP Portal, along with scanned copy of Demand Draft of Rs. 1000/ for cost of tender (Non-refundable) & for EMD of Rs. 64000/-
3. Demand Draft which shall be drawn in favor of  
“Principal, Mata Sundri College for Women”.
4. Original Demand Drafts shall be submitted in the office of Principal Mata Sundri College for Women, Mata Sundri lane, New Delhi, on or before date & time of opening of Technical bids.

**Sd/  
Principal**



## CRITICAL DATE SHEET

Publish Date	26-03 2021
Bid Document Download/sale start date	26-03-2021
Last Date of Download of Tender Document	08-04-2021 up to 11 am
Last Date of uploading of Tender Documents technical & price bid by contactors	08-04-2021 at 3:00 pm
Date of Opening of Technical Bid	09-04-2021 at 3:00 pm
Date of Opening of Financial Bid	Will be conveyed to shortlisted contractors

### DOCUMENTS TO BE PLACED IN TECHNICAL BID:

1. Company Registration Certificate
2. Complete company profile
3. Valid GSTN copy
4. PAN Card Copy
5. EMD of Rs64000 (DD No.     date     &name of bank\_\_\_\_\_----  
---) copy to be uploaded and original shall be submitted in the college.
6. DD of Rs.1000/- (DD No.     date----- name of bank\_\_\_\_\_)  
copy to be uploaded and original shall be submitted in the college.
1. Turnover certificate (Annexure-1)
7. 3-year ITR of the company
8. Experience proof documents (completion certificates from clients/ govt. orders)
9. Undertaking by tenderer on legal stamp paper certifying that the firm/ tenderer had not been blacklisted or debar by any Govt. dept. or any university/ undertaking during last seven years..

### Instructions to Bidders

1. Bid is open to only eligible competent Bidders with sound technical & financial capabilities meeting eligibility criteria laid down in the Notice Inviting the Tender.
2. Bidders are advised to visit and examine the site of work and its surroundings and obtain all information's that may be necessary for preparation of bid and entering contract and execution of work.
3. No labor camps can be permitted in the college campus, bidder shall make his own arrangements for the same at his own cost.
4. The bidder shall bear all costs associated with the preparation and submission of his bid.
5. Even though the Bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false statements, documents, representation or attachments or temper with any format or tender conditions in any way in bid documents.
6. Rates quoted shall be inclusive of all taxes including GST @18%
7. It will be presumed that bidders has quoted his rates after going through all terms & conditions specifications of works and after getting himself acquainted with all site conditions.

8. A prospective Bidder requiring any clarifications may submit the same in writing to the principal at least three days before the date of opening of technical bids. Copies of clarifications shall be posted on CPPP site <https://eprocure.govt.in/eprocure/app>. Bidders must keep watch a vigil on the website for the same and have no claim whatsoever for any ignorance in such case.

9. Any addendum, corrigendum, clarification, published on web site <https://eprocure.govt.in/eprocure/app> shall be part of the bidding document, The bidder have to keep vigil on the aforesaid web site for the same. College may extend the deadline for the submission of bid at its discretion to give bidders reasonable time for preparation of bid, in case of any such publication on web site by the college.

#### **BID OPENING AND EVALUATION**

1. **BID OPENING SHALL BE CARRIED OUT IN TWO STAGES. FIRSTLY. THE TECHNICAL** Bid of all the bids received online shall be opened on the date and time mentioned in date sheet published in NIT, the response of receipt of technical bids can be seen on aforesaid web site. In the event of specified date declared as holiday for the college than bids shall be opened on next working day.
2. Financial bids of only those bidders whose technical bids have been determined to be responsive will be opened after 24 hours of uploading the results of technical evaluation. Date and time shall also be intimated to those bidders who qualify for opening of financial bids by telephone/ e mail. Bidders are advised to keep vigil on web site portal also in this regard.
3. Information relating to the examination, evaluation and comparison of bids and recommendations for award of work shall not be disclosed to bidders or any other person not connected with the process until the award of work to the successful bidder has been announced and published on web site.
4. Any attempt by a bidder to influence the college authorities in the evaluation of the bids or contract award decisions may result in rejection of the bid.

**Principal,  
Mata Sundri College for Women,  
University of Delhi  
Mata Sundri Lane, New Delhi.**

## CONTENTS

S.No.	Description	Page No.
1	Appendix	Page 7
2	Notice Inviting Tender	Page 8-10
3	Letter submitting Tender	Page 11-12
4	Special Conditions	Page 13-14
5	General Conditions	Page 14-23
6	Important Notes	Page 24-29
7	List of Approved Makes	Page 30-48
8	Annexure -1 (For Technical Bid)	Page 49
9	Tender drawings	Page 50-52

## APPENDIX

Defects Liability period	12 Months
Date Of Commencement	The next day after the date on which the Architect /Engineer-in-charge issues written orders to commence the works or the date of handing over the site whichever is later
Date of Completion	90 Days from the date of commencement
Penalty for delay	5,000/-per day Maximum of 10% of the cost of the works.
Value of work for Interim Certificate	Rs.500,000 /- (Rupees five lakh Only)
Earnest Money Deposit	Rs. 64000/ (Rupees sixty four Thousand only)
Retention Percentage	5%(As per the terms and conditions)
Performance Guarantee	Contractor shall furnish a performance guarantee in the form of a Bank Guarantee to the tune of Three percent (3%) of the cost of the accepted tender amount, which will be kept valid up to 12 months after completion of the works.

**Contractor**

**Employer**

# **Mata Sundri College for Women**

## **University of Delhi, New Delhi**

Dated 26/03/2021

### **NOTICE INVITING TENDERS**

Online E- tenders (under 2 bid system, Technical & financial Bid) are invited on behalf of the Principal, Mata Sundri College for Women for Civil, Electrical, Water Supply & Sanitary work and Water Proofing of sunken floors for repairs of toilets in old building at Mata Sundri College for Women, New Delhi

- 1) The tender shall be uploaded on CPPP portal [https:// eprocure.gov.in/eprocure/app](https://eprocure.gov.in/eprocure/app) in the prescribed form in two parts technical & price bids.
- 2) The works are required to be completed within the period of 90 Days from the date of commencement.
- 3) The date of start of work shall be reckoned from the next day after the date on which the Principal MSC/Engineer-in-charge issues written orders to commence the work or from the date of handing over of the site, whichever is later.
- 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 site is expected to be handed over immediately. 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.
- 5) Plans, specifications etc. pertaining to the works can be inspected in the office of Principal Mata Sundri College for Women, Mata Sundri lane, New Delhi 110001, during Office hours, with prior appointment.
- 6) Tenderers are advised to inspect and examine the site and the surroundings and satisfy themselves before submitting their tenders as the nature of the ground and sub-soil (so far as practicable), the form and the nature of the site, the means of access to the 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 .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.
- 7) Submissions of the tender document by the 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.



- 8) A Tenderer should quote in figures as well as in words rate(s) tender documented. The amount for each item should be worked out and the requisite totals given. Special care shall be taken to write rates in figures as well as in words and the amount in figures only in such a way that interpolation is not possible. The total amount shall be written both in figures and in words. In case of figures the words "RS" should be written before the figure of rupees and the words "paise" should be written at the end. Unless the rate is in whole rupees and followed by the word "only" it should invariably be up to two places of decimals.
- 9) All rates shall be quoted only on the tender format of E tender inclusive all taxes including GST @18%.
- 10) The tender shall be accompanied by earnest money deposit of Rs.64000/ in the form of a demand draft in favor of the Principal, Mata Sundri College for Women. Delhi University New Delhi
- 11) On acceptance of the tender, earnest money will be treated as a part of the security.
- 12) The Tenderer, whose tender document is accepted, shall permit the Principal, Mata Sundri College For Women at the time of making any payments to him for works done under the contract to deduct towards security deposit such sum as will along with the amount of earnest money already deposited amount to the following % of the cost of the work: -
- 5% of the bill amount.
  - 50% of the security money will be released along with the final payment and the balance after expiry of the successful performance of the Defects Liability Period.
- 13) Mata Sundri College For Women will return the earnest money where applicable, to every unsuccessful Tenderer on return of all the tender documents.
- 14) A Tenderer shall submit the tender, which satisfies each and every condition laid down in this notice, failing which the tender document will be liable to be rejected.
- 15) Mata Sundri College for Women does not bind itself to accept the lowest or any tender or to give any reasons for their decision.
- 16) Mata Sundri College for Women reserves to itself the right of accepting the whole or any part of the tender and Tenderer shall be bound to perform the same at his quoted rates.
- 17) GST, purchase tax, turnover tax or any other tax applicable in respect of this contract shall be payable by the Contractor and Mata Sundri College For Women will not entertain any claim whatsoever in respect of the same. Rates shall be quoted inclusive of all taxes, excise, octroi etc.
- 18) T.D.S.for Income tax, GST, Labor cess etc. as applicable to union territory of Delhi shall be deducted from the payments to be made to the Contractor and tax deduction certificate shall be issued by Mata Sundri College For Women.

19) This notice of tender document shall form part of the contract documents.

**Contractor :**

Duly authorized to sign the

On Behalf of M/s

.....  
.....  
.....

Signature.....

Date.....

Email.....

Phone.....

Postal Address.....

.....  
.....  
.....

**Principal**

**For and on behalf of**

**Mata Sundri College For Women**

Authorized Signatory

To,

The Principal

Mata Sundri College For Women,

Mata Sundri Lane, New Delhi.

Dear Madam,

I/We have read and examined the following documents relating to Civil, Sanitary and Electrical Water Supply & Sanitary work and Water Proofing of Sunken floors for repairs of toilets in old building at Mata Sundri College For Women, University of Delhi.

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

I/We hereby quote 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 are 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 the Mata Sundri College For Women.

A sum of Rs-64000/-(Bank Draft No..... Dated.....) is hereby forwarded in Bank Draft in the favor of Principal, Mata Sundri College For Women 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 Mata Sundri College for Women. I/We agree that Principal, Mata Sundri College for Women 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, Mata Sundri College for Women 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, Mata Sundri College for Women 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, Mata Sundri College for Women 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.....

## **SPECIAL CONDITIONS**

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; in case of doubt the decision of the Principal/Engineer in charge 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 the Mata Sundri College for Women and other organizations. He shall be responsible for any damage to the equipment or structures, gates, roads, drains or injury to the personnel during the progress of the work and he shall be liable to pay compensation as may be decided by the Owner/ Architect/Engineer in Charge in respect of such damages/injuries.
3. The serviceable materials out of the dismantled materials if any will be properly stacked by the Contractor as directed by the Engineer-in-charge. All serviceable dismantled materials shall be college property and contractor shall stack the same properly at his own cost as per instructions of the Engineer In charge and hand over the same to the college authorities.
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 Mata Sundri College For Women, 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.
6. No labor or material rate escalation claims will be entertained from the contractor as this work has to be completed within 90 days from the date of commencement of work at site.
7. Rates quoted shall be applicable equally to all floors and shall include all lift and lead unless specified. No extra on this account shall be payable.
8. Water and electricity shall be arranged by the tenderer himself. In case it is available, the same can be provided by the College authorities at one point. A recovery @ 1 % for electricity and 1% for water charges shall be recovered on gross value of work done.

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 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
10. Contractor shall submit 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. Principal Mata Sundri college for women reserves the right to decrease the items of work, lower the specifications of works or remove the entire section of work as may be deemed necessary to finish the work within the available budget

### **GENERAL CONDITIONS OF CONTRACT**

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

1. The site: Shall mean the site of contract work at Mata Sundri College for Women, New Delhi.
2. Sub-Contractor: Includes those who have a direct contract with the Contractor.
3. Notice: Written notice shall be deemed to have been served if delivered in person to a member of the Contractors firm.
4. Owner: Principal Mata Sundri College for Women, New Delhi
5. Work: The term “work” includes both labor and material of the Contractor/Sub-Contractor.
6. Time limits: Time limits or 90 Days stated in the contract are essence of the contract.
7. Law: law of the place of work shall govern the construction under this contract.
8. 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.
9. Contract documents: shall consist of the following.
  - a) Articles of agreement
  - b) General and special conditions of contract and tender document
  - c) Technical specifications
  - d) Bills of quantities

### TYPE OF CONTRACT

It shall be an item rate contract. The Contractor shall be paid for the actual quantity and quality of work done, as measured at site on the rates quoted by him, on the basis of a payment certificate issued by the engineer in charge..

### SCHEDULE OF QUANTITIES

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

### CONTRACT DRAWINGS

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

### ARCHITECTS/ ENGINEER IN CHARGE INSTRUCTIONS

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

### SCOPE OF WORK OF CONTRACTOR

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

- a) Setting out of the works in respect of position, level dimensions, alignments, etc. including establishment of benchmarks, survey reference points, etc.
- b) Clearance of the site.
- c) Site leveling /terracing within the limits as shown in the drawings or as directed by the Engineer In charge.
- d) Disposal of debris, excavated materials, etc. as per the instructions of the Engineer In-Charge
- e) Testing of water, soil and concrete.
- f) Pumping out rainwater/underground water from foundations, excavations and drainage of surface water from work site.
- g) All scaffolding, shorting, centering, shuttering works, etc.

- h) Running and maintenance of all construction plants and equipment, tools and tackles, etc.
- i) All temporary /enabling works such as approach road to the site, water supply, drainage and sewerage, power supply including diesel generator set, temporary offices, stores, construction yard, canteens, toilet blocks, labor camp, fencing, etc.
- j) Protection and maintenance of trees, shrubs, green and other surfaces as instructed by the Engineer In charge.
- k) Any other work required in connection with the execution of the contract work.
- l) Water proofing works

The cost of all the above-mentioned works shall be deemed 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 OWNER.

#### SAMPLES AND SHOP DRAWINGS

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

#### PROGRESS CHART

In order to achieve the completion time as stated above, the CONTRACTOR shall submit to the OWNER within 7 (seven) days 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 OWNER

#### ACCESS FOR ARCHITECT /ENGINEER INCHARGE TO THE WORKS

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

#### ARCHITECTS STATUS AND DECISIONS

The Architect/ engineer shall be Owner's representative during the construction period. He shall periodically visit the site to familiarize himself generally with the progress and the quality of work and to determine, in general if the work is proceeding in accordance with the contract documents. The Architect/ engineer shall not be required to make exhaustive or continuous on-site inspections to check the quality and quantity of the work, and shall not be responsible for the Contractors failure to carry out the construction work in accordance with the contract documents. During his site inspections, the Architect/ engineer shall inform the Owner about progress of work, defects and deficiencies if any.

The Architect/engineer may in his absolute discretion from time to time, issue further drawings, details, written instructions, written decisions and written explanations in regard to: -

1. Variation or modification of the design
2. Quality or quantity of work, addition/alteration/omissions and substitutions of any work



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

#### ENGINEER INCHARGE

Engineer In-Charge shall mean the person approved by the Principal Mata Sundri College and appointed and paid by the Owner and acting under the directions of the Architect/ Principal (MSC)

#### CONTRACTORS FIELD ORGANIZATION AND EQUIPMENT

1. The Contractor shall employ qualified and competent licensed Electricians on the site.
2. Contractor shall provide and install all necessary hoists, ladders, scaffoldings, tools & plants and machinery necessary for execution of the works.
3. Contractor shall provide and maintain simple watertight office accommodation at site
4. Contractor shall make his own security arrangements at site and keep a 24hours Watchman.
5. Contractor shall provide sanitary convenience for site staff and labor to keep the site clean
6. A telephone line at site to be maintained and paid by the Contractor.
7. Guardrails shall be provided by the Contractor for safety of labor and public at the site of works.

#### TAXES & GOVT DUES

GST, Labour Cess, purchase tax, turnover tax or any other tax applicable in respect of this contract shall be payable by the Contractor and Mata Sundri College For Women 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 byelaw of the local body, relating to the work and indemnify the Owner against any such liability arising out of noncompliance of the law.

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

- a) Employee's Provident Fund Act 1952
- b) Contract Labor 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

#### SUB CONTRACTOR

Before awarding any subcontract, the Contractor shall notify the Architect/ engineer in charge in writing the names of the Sub-Contractors proposed. Contractor shall not employ the Sub-Contractor to whom Architect or Owner may have a reasonable objection.

#### MEASUREMENT OF WORK

Unless otherwise specified, measurement of work shall be carried from the works executed. The measurements for the purpose of preparing Bills will be taken jointly by the CONTRACTOR's representative and the Engineer In charge. In measurement of work as stated above, the CONTRACTOR shall certify that the work has been carried out strictly as per the drawings, specifications and item of work in terms of the agreement. Such certificate shall require Engineer In-Charge's endorsement for the purpose of payment. In the event of any dispute with regard to the measurement of the work executed, the decision of the OWNER shall be final and binding on the CONTRACTOR. In the case of site measurements, should the CONTRACTOR not attend or neglect or fail to send his representative for taking joint measurements, the measurements taken by the Engineer In Charge shall be deemed to be the correct measurement of work and shall be binding on the CONTRACTOR

#### REJECTION

If the Contract work or any portion thereof, at any time, is found to be defective or fails to fulfill the requirements of the agreement, the Engineer In Charge shall give the CONTRACTOR notice in writing setting-forth particulars of such defects or failure and the CONTRACTOR shall forthwith make good the defects or replace or alter the same to make it comply with the requirements of the agreement. Any materials, equipment, etc. brought to the site and found to be not in accordance with the agreement, shall be rejected by the Engineer In-Charge and the CONTRACTOR shall remove the materials from the site within the period specified by the Engineer In-Charge.

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

#### CERTIFICATES OF PAYMENTS

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

All running payments shall be regarded as payment by way of advance against final payment only and not as payment for the work completed till the date of final payment. The running payment made shall

not preclude the liability of the CONTRACTOR to finally complete the work strictly in accordance with the specifications and drawings, if required by re-constructing faulty work

#### CLAIM FOR EXTRA

It shall be the responsibility of the Contractor to inform the ENGINEER IN CHARGE of the extra claim, if any and get a written approval from the ENGINEER IN CHARGE before proceeding with the work.

#### DEDUCTION FOR UNCORRECTED WORK

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

#### FLUCTUATIONS

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

#### POSSESSION BEFORE VIRTUAL COMPLETION

If the Owner, with the consent of the Contractor takes possession of part of the 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/ engineer in charge, to enable the Owner to take a proper decision in the matter.

#### INSPECTION AND TEST

- i. The CONTRACTOR shall ensure inspection and test of all materials and work at his cost through his ENGINEER IN CHARGE and other technical staff either at site or through any approved laboratory.
- ii. The CONTRACTOR shall ensure proper supervision and inspection during the progress of work at site.
- iii. All materials and work, whether at the site or in the CONTRACTOR's /Sub-Contractor's premises shall be subject to inspection and test by the ENGINEER IN CHARGE. The CONTRACTOR/ his Sub-Contractor shall provide all facilities free of cost to the ENGINEER IN CHARGE including all labor, materials, tools, tackles, instruments, appliances, etc. to enable the ENGINEER IN CHARGE to carry out inspection and/or test.
- iv. All test certificates shall be subject to certification by the ENGINEER IN CHARGE.
- v. The CONTRACTOR shall submit to the ENGINEER IN CHARGE three copies of all inspection/ test certificates.
- vi. The CONTRACTOR shall not be entitled to any claim for extra time or cost due to any delay in carrying out inspection and testing or re-inspection and re-testing if so decided by the ENGINEER IN CHARGE.
- 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 Owner to deduct a sum calculated at the agreed liquidated damages, from the money due to him for the period the work remained incomplete, subject to a maximum amount of 10% of the Contract Value.

#### LIQUIDATED DAMAGES FOR DELAY

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

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

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

#### VIRTUAL COMPLETION CERTIFICATE AND DEFECTS LIABILITY PERIOD

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

The Architect/engineer in charge shall prepare a schedule of defects, not later than 14 days after the expiry of the defect's liability period. The Contractor shall within a reasonable period after receipt of schedule of defects shall rectify the same, failing which the engineer in charge will make suitable deductions from the contract sum up to 10% of value of work or actual cost of removal of defects whichever is more.

#### MAINTENANCE GUARANTEE / DEFECTS LIABILITY PERIOD

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

- a) The CONTRACTOR guarantees that within the maintenance guarantee period, the contract work shall not show any signs of defects, cracks, settlements, 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 as stated in Article (a) during the maintenance guarantee period.

- c) The CONTRACTOR shall, if required by the ENGINEER IN CHARGE, search for the causes of any defects, imperfection or fault under the direction of the ENGINEER IN CHARGE. The cost of such search shall be borne by the CONTRACTOR.
- d) At intervals specified by the ENGINEER IN CHARGE the CONTRACTOR, along with the ENGINEER IN CHARGE, shall inspect the contract work to satisfy himself that no defects have cropped up in the contract work. Should there be any signs of defects, the CONTRACTOR shall take immediate steps to rectify the same, failing which; the ENGINEER IN CHARGE may get the defects rectified at the risk and cost of the CONTRACTOR.
- e) At the end of the maintenance guarantee period, the CONTRACTOR, along with the ENGINEER IN CHARGE, shall carry out final inspection of the contract work to prove that no defects had appeared in the contract work or that all defects which appeared in the contract work have been rectified to the entire satisfaction of the ENGINEER IN CHARGE. If during the final inspection it is found that the defects still remain in the contract work, the period of maintenance guarantee shall be extended at the discretion of the ENGINEER IN CHARGE and the CONTRACTOR shall be liable to make good the defects and be responsible for the maintenance of the work till the defects have been fully rectified.
- f) Upon successful completion of the maintenance guarantee period the OWNER shall issue final acceptance certificate to the CONTRACTOR

#### PAYMENT WITH HELD

The Architect/ engineer in charge may withhold or on account of subsequently discovered evidence nullify the whole or part of any certificate to such an extent as may be necessary in his reasonable opinion to protect the Owner from loss, for defective work, non- payment to Subcontractors, or other claims connected to this work.

#### INJURY TO PERSONS

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

#### INSURANCE

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

#### INSURANCE AGAINST FIRE

The Contractor shall in the joint name of the Owner and the Contractor, insure 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, electrical, firefighting, plumbing and interiors working on the same site.

#### LABOUR

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

#### SAFETY

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

#### ANTIQUITIES

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

#### GUARANTEE

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

#### TREES AND SHRUBS

The Contractor shall protect trees and shrubs designated by the Architect/ engineer in charge from damage during the course of work.

#### PERFORMANCE GUARANTEE

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

On acceptance of Tender, the contractor shall furnish performance guarantee in the form of FDR or, bank guarantee of 3% of the accepted Tender cost in favour of Principal, Mata Sundri College For Women, within 10 days of award of work which shall be refunded after satisfactory completion of work and defects liability period of one year from the date of completion of work as recorded by project Engineer / Architect, without any interest

#### ARBITRATION

In case of dispute, the difference of opinion on any matter pertaining to the works, the decision of the Principal Mata Sundri College for Women , Delhi University, shall be final and binding on the contractors and the owners. If either party is not satisfied with the decision of the Principal MSC, within 28 days a notice to this effect will be sent to the Principal MSC in writing. The matter can then be referred to sole arbitrator or a panel of two arbitrators, Arbitrations Act 1996 with up to date amendments if any shall be applicable with jurisdiction of courts in Delhi.

#### LIQUIDATION

If the CONTRACTOR commences to be wound up, not being a member's voluntary

winding up for the purpose of amalgamation or reconstruction, or carries on his business under a receiver for the benefits of his creditor the OWNER shall be at liberty to:

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

#### TERMINATION OF CONTRACT

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

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

## **IMPORTANT NOTES:**

### **EARTHWORK WORKS**

The Rates Quoted Shall Include the Following

- 1) Excavation either straight, inclined or curved in trenches, footings, rafts, basements etc., including raking out, cutting and dressing sides and bottom to true dimension and depositing excavated stuff beyond three meters clear of the edge of the trench, filling back as required and disposal of surplus earth anywhere within the plot as directed by site engineer/ architect.
- 2) Clearing all shrubs, roots, vegetation and trees from alignment of the buildings
- 3) Bailing out, pumping out or otherwise removing all water which may accumulate in the excavation from any or all causes whatsoever.
- 4) All labour and material required for fencing and protection against risk of accident to open excavations etc., with necessary shoring planking and strutting and for providing gangways, with handrails across open trenches etc., where necessary during the progress of the work.
- 5) Watching and lighting arrangements wherever necessary whether ordered by the architect/employers or otherwise.
- 6) Filling back available excavated earth in plinths, sides of foundations, sides of basements, under floors and for ground formation etc., as and where required in 150 mm thick layers, breaking humps, ramming, watering, consolidation, the same with 10 M.T. Rollers or hand tampers where rollers are not accessible, and dressing the filled up areas.
- 7) Battering, benching, forming steps in the sides of foundations and mass excavations where required and removal of the slips and falls.
- 8) Anti termite treatment shall be got done through a specialized sub-contractor approved by the architect. This item is payable separately.
- 9) The contractor shall guarantee against termite for a period of 10 years.
- 10) Waterproofing shall be done by specialized agency as approved by the Engineer IN Charge /Architect and contractor shall give a guarantee for its effectiveness over a period of 10 years. The rates for waterproofing shall be inclusive of all labour and material for the successful completion of the job. This item is payable separately.
- 11) Water table has to be maintained at least 1.0 Mt., below lean concrete level of raft by providing adequate de-watering arrangements. This water table has to be maintained till Basement floor slab is cast including the retaining wall.
- 12) Water table shall also be maintained till such time the waterproofing of retaining wall and raft is complete. This item is not payable separately.



## **PLAIN AND REINFORCED CEMENT CONCRETE**

The Rates Quoted Below Shall Include the Following

- 1) Making all drips, grooves, moulds, curved surfaces and chamfered edges etc. in concrete and/or plaster work as directed
- 2) Forming all expansion and/or construction joints as per standard specification and/or as directed.
- 3) All projections, , ornamental work etc. and finishing to shape as directed.
- 4) Embedding all electric pipes, fan hooks, boxes, false ceiling suspensions and inserts of any description etc. in R.C.C slab, beam, walls etc., as directed.
- 5) Installing a calibrated cube-testing machine at site, getting it calibrated every month and submitting test report to the architects. Alternately getting the cubes tested in an approved lab.
- 6) Preparing 7 days and 28 days test cube, testing them at site and /or getting tested in an approved laboratory including all fees, costs, transportation etc. relating to them.
- 7) Providing slump tests apparatus at site and test for checking the workability of concrete.
- 8) Working up or hacking of concrete surfaces for providing keys for further concrete work including applying thick cement slurry or mortar as directed
- 9) Providing 12 mm thick cement plaster 1:6 (1 cement: 6 fine sand) and a coat of lime wash on all brick wall surfaces serving as bearing for RCC work.
- 10) Exposed architectural or ordinary centering, shuttering and formwork, strutting, boxing, propping etc. except wherever specified to exclude in the item. Shuttering to be made watertight with plywood and timber if necessary.
- 11) Use of shuttering oil as specified!
- 12) Use of cement slurry over shuttering before commencing concreting.
- 13) Machine mixing of all concretes and hoisting to all lifts, carrying to all leads, consolidating by rodding, vibrating, tamping and curing.
- 14) Sinking of floors in specified areas.
- 15) Providing of dowel bars wherever directed by the architect/engineer.
- 16) Forming cutouts, openings and concreting at a later stage as required
- 17) Providing sleeves for pipes etc. before concreting
- 18) Working in narrow widths, small quantities and curved alignments etc.

- 19) Removing rust, mild scales, oil, grease, paint etc. from steel reinforcement.
- 20) Providing 16 gauge annealed binding wire and binding the reinforcement with the same without any extra cost on the account for labour or material.
- 21) Providing cover to steel with cement concrete briquette spacers at no extra cost.
- 22) Payment of labour for laying steel as per Indian standard section weights actually placed in position as per design and drawing or as directed.
- 23) The contractor shall not undertake the RCC work including formwork of first floor before laying lean concrete on the lowest floor if so directed by the architect/engineer.
- 24) Wherever new structural slab/beam is to relate to the old structural slab/beam, the cost of chipping the necessary old concrete members and re-casting the same is to be included in the item.

## **MASONRY WORK**

The rates quoted shall include the following:

- 1) Work in English bond or any other design as directed by the architects.
- 2) Work in square round and rectangular pillars, flower troughs, under floor drains, making curved and tapered surfaces steps etc.
- 3) Forming openings, chases, grooves etc.
- 4) Embedding/ cutting chases for conduits, boxes other fixture of any descriptions, hold fasts of doors,
- 5) Fixing Windows glazing etc.,
- 6) Making all drip courses, projected courses of any description, offsets, setbacks, corbels, architraves or any other feature of description.
- 7) Raking out joints for plastering or pointing in plinth super structure or finishing joints flush in foundation as directed
- 8) Bonding with RCC work
- 9) Work in narrow widths, small quantities etc. supplying moulds, taking briquettes, getting tested, any fees, costs etc., relating to the same.
- 10) Machine mixing of mortars.
- 11) Curing of brick work

- 12) Preparing bricks for testing (efflorescence, water absorption, crushing strength, shapes, sizes etc.) in the field laboratory and or an approved laboratory, and any fees, costs etc. relating to them.

## **JOINERY, ALUMINIUM, WOOD AND STEEL WORK**

- 1) The rates quoted below shall include the following.
- 2) Providing and fixing all flush door shutters of M/S DURO/GREEN/VIRGO/CENTURY make with 0.75" teakwood lipping on all edges.
- 3) Kiln seasoning and termite proofing of all timber work
- 4) Providing so-lignum paint to hidden faces of timber work
- 5) Providing and fixing doors windows and other frames in the openings with MS flat iron 40 mm x 3 mm x 38 cms. Long hold fasts 6 No. (Minimum) for door and 4 No. (Minimum) for windows, screwed to frames embedded in cement concrete 1:3:6 mix (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) blocks of size 300 x 150 mm or with wooden plugs and screws or with rawl plugs and screws or with bolts and nuts, as directed.
- 6) Providing necessary moldings in frames as required/ as per drawing
- 7) The frames for doors, windows, AC openings or any other frame shall be measured for finished dimensions. The length of projections for tenons etc. shall not be measured for payment.
- 8) Providing heavy quality SS hardware fittings and fixtures which shall be included in the rates of the shutters as per details below
- 9) single door shutter
  - i) Butt hinges 100 mm long 4.00 No.
  - ii) Stainless Steel Handles 200 mm long 2.00 No.
  - iii) Door stopper 1.00 No.
- 10) double door shutter
  - i) Butt hinges 100 mm long 8.00 No.
  - ii) Stainless Steel Handles 200 mm long 4.00 No.
  - iii) Door stopper 2.00 No.
- 11) The rate shall include spirit polish for all exposed wood work and veneer finishes unless specified otherwise.
- 12) All items for wood work shall be got approved by the architects before applying primer coat

- 13) Areas of door and windows shutters shall be measured in closed position covering the rebates of the frame. Overlap of two shutters shall not be measured. The width and height of shutters shall be measured correct to one centimeter within frame rebates
- 14) Teak ply to be fixed to base cladding/commercial board with group matching
- 15) All block board and ply shall be used of BWP grade, termite and “powder beetles” proof.
- 16) Supplying and fixing of M.S. frames in the openings with lugs 16 mm x 3.15 mm x 10 cms long in cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) blocks of size 15 x10 x 10 cms or with wooden plugs and screws or with rawl plugs and screws or with clips or with bolts and nuts as required.
- 17) Supplying and fixing of approved quality of heavy anodized aluminium hardware fittings.
- 18) Supplying and fixing of approved quality of heavy anodized aluminium hardware fittings.
- 19) Supplying and fixing approved heavy quality oxidized M.S. Hardware fittings to steel glazed windows/doors as per drawing.
- 20) Painting all M.S. Works with a coat of red oxide primer.
- 21) Providing necessary couplings, transom and mullions wherever required.
- 22) Providing mastic compound at junction of window or glazing frames with openings to make the joint watertight and for embedding mullions.
- 23) Minimum thickness of glass to be used in glazing to be 5.5 mm unless otherwise specified.
- 24) Contractor shall provide full shop drawings for Aluminum doors, windows and partitions with full details of Aluminum sections and joinery for approval from architect/ engineer in charge before proceeding with procurement of materials or starting of aluminum works at the site.

## **FLOORING**

- 1) The rates quoted below shall include the following.
- 2) Cleaning and final preparation of base, sub-grade or sub floor by trimming undulations etc., including applying neat cement slurry.
- 3) Laying floors to required slope in any size and shape of panels and strips of any description.
- 4) Making “V” grooves of any pattern in plaster and dados including rounding off junctions with floors.
- 5) Baroda/kota stone slabs or tiles in floors, treads and risers, of steps, skirting, wall

cladding etc., shall be machine cut of sizes as per approved samples and shall be laid and fixed as per pattern shown on the drawing.

- 6) Kota stone slabs or tiles for floors, treads and risers of steps, skirting, wall cladding etc., shall be machine cut of sizes as per approved samples and shall be laid and fixed as per pattern shown on the drawing.
- 7) Cutting holes in stone for treads of steps for fixing staircase-railing balustrades.
- 8) Cleaning paint splashes, drops or dirt, glasses, joinery, electric fittings, wiring etc., including washing the floors and leaving the premises neat and clean.
- 9) Edge polishing to stone slabs and tiles shall not be paid separately.
- 10) Grinding and polishing shall be blade edge granite polish to all marble and granite.
- 11) Measurement shall be as per drawing.

### **FALSE CEILING, ROOFING AND TERRACE WATERPROOFING**

The rates quoted shall include the following:

- 1) Cleaning and final preparation of base for laying water proofing
- 2) Making ridges and valleys over terrace finished surface true in line and slope as per drawing.
- 3) All items of terracing shall be as per CPWD specifications.

### **FINISHING**

The rates quoted below shall include the following:

- 1) Cleaning and final preparation of base, sub-grade or sub-floors by trimming undulations etc. including applying neat cement slurry.
- 2) Raking out, joints, cleaning the surface, application of cement slurry and providing and fixing 300 mm wide 24-gauge chicken mesh tightly secured at the junctions of brickwork and RCC work, electrical conduits, plumbing conduits before applying plaster skirting and dados treatment.
- 3) Work in patches, narrow widths, small quantities, curved surfaces, projected bands, setbacks, offsets corbels, architrave's etc.
- 4) Repairing and finishing the junctions of skirting and dados with plaster
- 5) Finishing the edge of electrical fittings and boxes etc.
- 6) Use of scaffolding, cradles etc., dust sheets and other coverings for the protections of fixtures, fittings, furniture, floors etc.

## Approved Make Of Materials

	Civil Works	
Serial No.	Materials	Manufacturer
1)	Commercial Ply And Commercial Board	Duro, Green, Virgo
2)	Teak Ply	Duro, Green, Virgo
3)	Laminate	Greenlam, Decolam, Virgo, Merino
4)	Mirror	Modigaurd, Saint Gobain
5)	Glass	Modi Float, Saintgobain
6)	Flush Door Shutters	Duro, Green, Virgo, Sitapur, Mysore (First Quality) Or Equivalent
7)	Paints	Nerolac, I.C.I, Asian
8)	Mortice Latches And Locks	Godrej, Dorset, Hardwyn
9)	Coarse Sand	As Per Is:383 (Latest Edition) Approved Quarry Or Equivalent
10)	Fine Sand	Do
11)	Stone Aggregate	Do
12)	Aluminum Section	Indal Or Jindal (Heavy Quality) Or Equivalent
13)	Ceramic Non Glazed Tiles	Orient, Kajaria, Nitco, Bell, Regency Or Equivalent
14)	Mdf Board	Green Panel Max
15)	Hinges-Ms Oxidised	Heavy Duty
16)	Tower Bolt-Aluminium	Do
17)	Door Stopper-Aluminium	Do
18)	L-Drop – Aluminium	Do
19)	Handle- Aluminium	Do
20)	Pvc Strips/ Hand Rail	Fixo Pan Or Equivalent
21)	Cement	43 Grade OPC : Ultratech, L&T
22)	Steel	Tata , Sail, Jindal Panthar, JSW

## LIST OF APPROVED MAKES FOR ELECTRICAL WORKS

S.No.	Details of Materials / Equipment	Manufacturer's Name
1	LT Panel , Main Distribution Panel, Sub- Main Distribution Panel and Motor Control Centre	Tricolite industries Ltd.
		Adlec Control System
		SPC Electro Tech Pvt. Ltd.
		Ambit Switchgear
		Milestone
2	Sandwiched Construction Bus ducts	Control & Switchgear

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Henikwon (L&T)
			GE
			Schneider Electric
3	Final Distribution Board		Legrand
			Hager
			ABB
			Siemens
			Schneider Electric (MG)
4	Air Circuit Breaker ( 3/4 Pole )		Schneider Electric (MVS)
			Larsen & Toubro (C-Power)
			ABB( E-Max)
			Siemens
5	Moulded Case Circuit Breaker (MCCB)		Larsen & Toubro
			ABB
			Schneider Electric (CVS)
			Siemens
6	Motor Protection Circuit Breaker(MPCB)		Hager
			ABB
			Schneider Electric
			Siemens
7	Miniature Circuit Breakers (MCB)		Hager
			ABB
			Schneider Electric
			Siemens
8	Residual Current Circuit Breaker (RCCB)		Hager
			ABB
			Schneider Electric

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Siemens
9	Power/Aux. Contactor / Capacitor		Schneider Electric (MG)
	Duty Contactor		Hager (L&T)
			ABB
			Siemens
10	Change Over Switch		Larsen & Toubro
			C & S
			HPL – Socomec
11	Control Transformer/Potential Transformers		Automatic Electric
			Matrix
			Pragati
			Precise
12	Current Transformer (Epoxy Cast Resin)		Automatic Electric
			Matrix
			Pragati
			Precise
13	Protection Relay		
	a. Numeric Type		ABB
			Areva
			Larsen&Toubro
			Siemens
	b. Electromagnetic Type		ABB
			Areva
			Larsen&Toubro
14	Indicating Lamps LED type and Push Button		Vaishno Electricals
			Larsen & Toubro (ESBEE)
			Schneider Electric Siemens



LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
15	Overload relays with built in Single Phase preventer		ABB
			Larsen & Toubro
			Schneider Electric
			Siemens
16	a. Electronic Digital Meters (A/V/PF/Hz/KW/KWH) with LED Display		Conzerv
			Schneider Electric
			Secure
	b. ISI Marked Dual Energy Meter with centralized metering & billing system		Secure
			Radius
17	Static Power Meter & Logger (SPML)		Conzerv
	With RS 485 port		Schneider Electric
			Secure
18	Power Capacitor		Matrix
			Ducati
			EPCOS
			Meher
19	Autoamtic Power Factor Correction Relay		Areva
	(Numeric Type)		BELUK (Germany)
			Siemens
20	PVC insulated XLPE aluminium/copper conductor		Cable corporation of India
	armoured MV Cables upto 1100 V grade		Skytone
			Ravin Cable
			Polycab

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			KEI
			Dimond
21	LT Jointing Kit / Termination		Birla-3M
			Raychem
			REPL
			Safe Kit
22	Cable Glands Double Compression with earthing links		Baliga Lighting
			Comet
			Cosmos
23	Bimettalic Cable Lug		Comet
			Dowell's (Biller India)
			Hax Brass (Copper Alloy India)
24	PVC insulated copper conductor stranded flexible wires		Finolex
			R RKabel
			Skytone
			KEI
			Polycab
			BatraHenlay
25	Mettalic / GI Conduit (ISI approved)		AKG
			BEC
			NIC
26	Lead Coated Flexible GI Conduit		PLICA India Pvt. Ltd.
			Flexicon
27	PVC Conduit & Accessories (ISI approved)		AKG
			BEC
			Precision
			Polypack

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Ravindra
28	Industrial Socket		
	a. Splash Proof		Clipsal
			Gewiss
			Legrand
			Neptune Balls
			Schneider Electric
	b. Metal Clad		BCH
			MDS
29	Switch & Socket		Clipsal (Opal Series)
			Crabtree
			M K India (Wraparound)
			Idoasian-simon
			Legrand (Mosaic)
			Wipro (NorthWest)
			Havells –crownos
			ABB – Lumina
			Anchor Roma
			Siemens
			L&T
30	Ceiling Fan		Crompton Greaves
			Havells
			Orient
			Usha
31	Lighting Fxiture		
	a. Incandescent / Halogen / PL / Metal Halide) / Fluorescent		Philips
			Wipro

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			GE
	b. External Lighting Fixture		Bajaj Electricals Ltd.
			Keslec
			LIGMAN
			Philips
			Wipro
	b. Aviation Obstruction Light(LED Type)		Actos
			Bajaj
			Binay
32	Electronic Ballast for Fluorescent		Osram
	(To be selected as per fixtures' manufacturer)		Opal
			Philips
			Thorn
			Wipro (APF)
33	Selector Switch, Toggle switch		Kaycee
			Salzer (Larsen & Toubro)
34	Cable Trays (Factory Fabricated) / Raceways		Profab Engineer
			Ricco Steel
			Needo
			MaheshwariElectrtricals
35	Sealed Maintenance Free Batteries		Amar Raja
			Exide
			Global (Rocket)
			Hitachi
			Shinkobe
36	Battery Charger		Caldyne

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			ChhabhiElectricals
			Joshi Electricals
			Max Power
			Volstat
37	Invertor		Autopro (Professional Lighting)
			Luminous
			Megatech
			Microtek
38	Lightning Protection System		Erico
	(Early Streamer Emission Type)		LPI
39	Timer		ABB
			Larsen & Toubro
			Legrand
			Schneider Electric
			Siemens
40	50 W Halogen Light Transformer		Gemini Global
	(Encapsulated Transformer)		Opal
			Philips
			Reiz
41	Tap off / splitters complete with gasketed G.I. boxes		Catvision
			CE
			DX
			Powerage
			Vision Hire
<b>B.</b>	<b><u>TELELEPHONE / DATA</u></b>		
1	Tag Block		Krone

LIST OF APPROVED MAKES FOR ELECTRICAL WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			TVSE
2	Telephone armoured / unarmoured cable / wire		Delton
			Finolex
			Skytone
			Fusion Polymer
			Polycab
3	Coaxial Cable		Beldon
			Comm-Scope (US Imported)
			Fusion Polymer

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
1	a. Vitreous China Sanitaryware		Cera
			Neycer
			Parryware
2	W.C Seat Covers		Admiral
			Tara
3	Low level Flushing cisterns		Commander
			Duralite
	b. WC Connectors		Multiwik
			Viega
2	Bath Tub and Shower Tray		Aquaplust
			Parryware
3	Stainless Steel Sink		Cobra
			Jayna
			Nirali

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
6	Cistern		Commandor
			Champion
			Parryware
7	CP Brass Fittings		Crabtree
			Ess-Ess
			Gem
			Jaguar
			Kingston
			Parko
			Parryware
			Marc
			Plumber
8	Flow Control Devices		Jaquar
			RST
9	Storage Type Geyser / Heat Pump		Racold
			AO Smith
			Venus
10	Floor Drain Fixture, Rain Water Outlets		ACO
			GMGR
			Neer
11	Urinal Trap		Chilly
			Neer
12	ULTRA LOW FLOW FIXTURES-		M.N. Padia
	(Flush valves, Faucets, Bib taps)		Schell
	Low Flow C.P Fittings		

**LIST OF APPROVED MAKES FOR SANITARY WORKS**

<b>S.No.</b>	<b>Details of Materials / Equipment</b>	<b>Manufacturer's Name</b>
13	Macerating systems	Grundfos
		Sanitop
14	Shower Channel / PP – car parking channel	ACO
		Kessel
		Viega
15	C.P. Grating for Floor Trap	Chilly
		GMGR
		Neer
		Viega
16	GI / M.S Pipes (IS : 1239 and IS : 3589)	AST Pipes
		Hitech
		Swastik
		Zenith
17	GI pipes fittings	Crescent Engg Corp. Jalandhar
		KS Engg
		RM Engg works, ahmedabad
		Zoloto
18	GI/MS Pipe Protection Wrapping & Coating	IWL - Pypkote
		Neotape
		Rustech – Coatek
		STP Ltd.
19	Pipe clamp & supports	Diamond
		Easyflex
		Intellotech
20	Pipe Hangers	Hitech



**LIST OF APPROVED MAKES FOR SANITARY WORKS**

S.No.	Details of Materials / Equipment		Manufacturer's Name
			OM fasteners
21	D. I. Pipes		Jindal
			NECO
22	UPVC Pipe		Finolex
			Jain
			Kisan
			Prince
			Crescent Engg Corp. Jalandhar
			KS Engg
			RM Engg works, ahmedabad
			Zoloto
23	CPVC pipes & fittings		Ajay
			Ashirwad
			Astral
			Prince
24	Teflon Tape		
25	Toilet Accessories		Akoi
			Parko
26	P.P.R Pipes		Prince
			Reliance
			Supreme
27	P.E.X pipes		Itap
			Giacomini
			Henco
			Viega

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
28	FRP/GRP Manhole covers		Everlast
			Thermoset
29	HDPE Pipe & fitting		Duraline
			Kimplas
			Reliance
30	RCC Pipe		Dhere
			K K
			INDIAN HUME PIPE
			Pranali
31	Stoneware Pipes		Anand
			Burn & Co.
			Perfect potteries
			Rajura
32	GM / Forged Brass Ball Valves		Jayhiwa
			Leader
			RB
			Sant
33	Sluice Valves		Advance
			Kirloskar
			Marck-Cair
			SANT
			Zoloto
34	Butterfly Valve		Audco
			Jayhiwa
			Keystone

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Marck-Cair
35	Check Valve – WaferType		Kirloskar
			Jayhiwa
			Marck-Cair
			Normex
36	Check Valve – Dual Plate		Marck-Cair
			Normex
			Sant
37	Cast Iron Non Return valve		Leader
			Zoloto
38	Check Valve Forged Screwed		Leader
			RB
			Zoloto
39	Pressure Reducing Valve		Marck-Suzhik
			RB
			OR
			Zoloto
40	Solenoid Valve		Avcon
			Aira
			Danfoss
41	Thermostatic mixing valve		Danfoss
			Overtrop
42	Air Release Valve		Marck
			OR
			RB

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Studor
			Zoloto
43	Ball Float Valve		Prayag
			Zoloto
44	NRV – Ball type – Sewage application		Danfoss
			Silverspark
			Normex
45	Backflow preventor		Normex
46	Foot valve		Kirloskar
			Normex
47	HDPE Tanks		Sintex
			Ashish
48	Air Vent Inlet Valve		Studor
49	Food Crusher for Sink		Enviro
			Venus
			Zach- Rajguru
50	FRP/GRP- SMC water tank		Devi Polymers pvt. Ltd.
			Smartage
			Binani
51	FRP/GRP storage tanks		Sintex
52	Y Strainer CI		Leader
			Marck-Cair
			Zoloto
53	Hydropneumatic System		Aquasub Engineering
			CRI Pumps

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Dharani pumps
			Grundfos
			Kirloskar
			Nocchi
			Nanfang
			Willo – Mather & Platt
54	Storm Water Drainage & Sewage Sump Pumps (Submersible)		Aquasub Engineering
			CRI Pumps
			Darling
			Dharani
			Grundfos
			Kirloskar
			KSB
			Kishor
			Nocchi
			Mody
			Willo – Mather & Plantt
55	Transfer Pumps		Aquasub Engineering
			CRI Pumps
			Dharani
			Grundfos
			Kirloskar
			KSB
			Nanfang
			Nocchi

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Willo - Mather & Platt
56	Self-Priming Pumps		Aquasub Engineering
			CRI Pumps
			Johnson
			Kirloskar
57	Borewell Pump		Aquasub Engineering
			CRI Pumps
			Grundfos
			Kirloskar
58	Anti Vibration Mounting & Flexible Connections		Cori
			Dunlop
			Flexionics
			Easyflex
			Resistoflex
			VIMPA
59	Pressure Gauge		Fiebig
			H Guru
60	Water Meter (Mechanical Type)		Dasmesh
			Kranti
			Kent
61	Level Controller & Indicator (Water)		Pumptrol
			RM Engg. Works, Ahmedabad
62	Paints		Asian Paints
			Berger
			ICI

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
			Shalimar Paints
63	MH / Water Tank Plastic Steps		KGM
			Patel
			Pranali Industries
64	Insulation for Hot Water Pipes		Armacell – Armaflex
			K-Flex
			Thermaflex
65	Electric Hot Water Generator / Heat Pump		A.O. Smith
			Spherehot
			Venus
			Riello
66	Solar Heating		A.O Smith
			Ecotherm
			Megason (Greece)
			Overtrap
			Solinteks
			Tata BP Solar
			Vijay Solar
67	Grease Trap/Separator		ACO
			Wade
68	Welding Rods		Ador
			Cosmos
			Prima (S)
			Super Bond (S)

LIST OF APPROVED MAKES FOR SANITARY WORKS			
S.No.	Details of Materials / Equipment		Manufacturer's Name
69	Fastener		Fisher
			Hilti
			Mungo
			Powers
70	Fire Sealant		Birla 3 M
			Hilti
			Powers
			Promat
			STI (USA)/ Fire master
71	Manhole (prefabricated)		OK Play
			Supreme
72	Temperature Sensor / Gauge		Forbes Marshall
			Danfoss
			Wika
73	Vacuum Sewer System		Roediger Vacuum
74	Syphonic Roof Drainage System		Geberit
			George Fisher
			Neuva Terrain
			Saint Gobian



ANNEXURE-1

ON THE LETTER PAD OF CHARTERED ACCOUNTANT

This is to certify that the total turnover in the case of

M/s .....

having PAN No. ....

& GST No. ....

is as under:

Financial Year/Period	Amount in Rupees(Figures)	Amount in Rupees(words)
2017-18		
2018 -19		
2019 -2020		
Total		

Average= Total/3

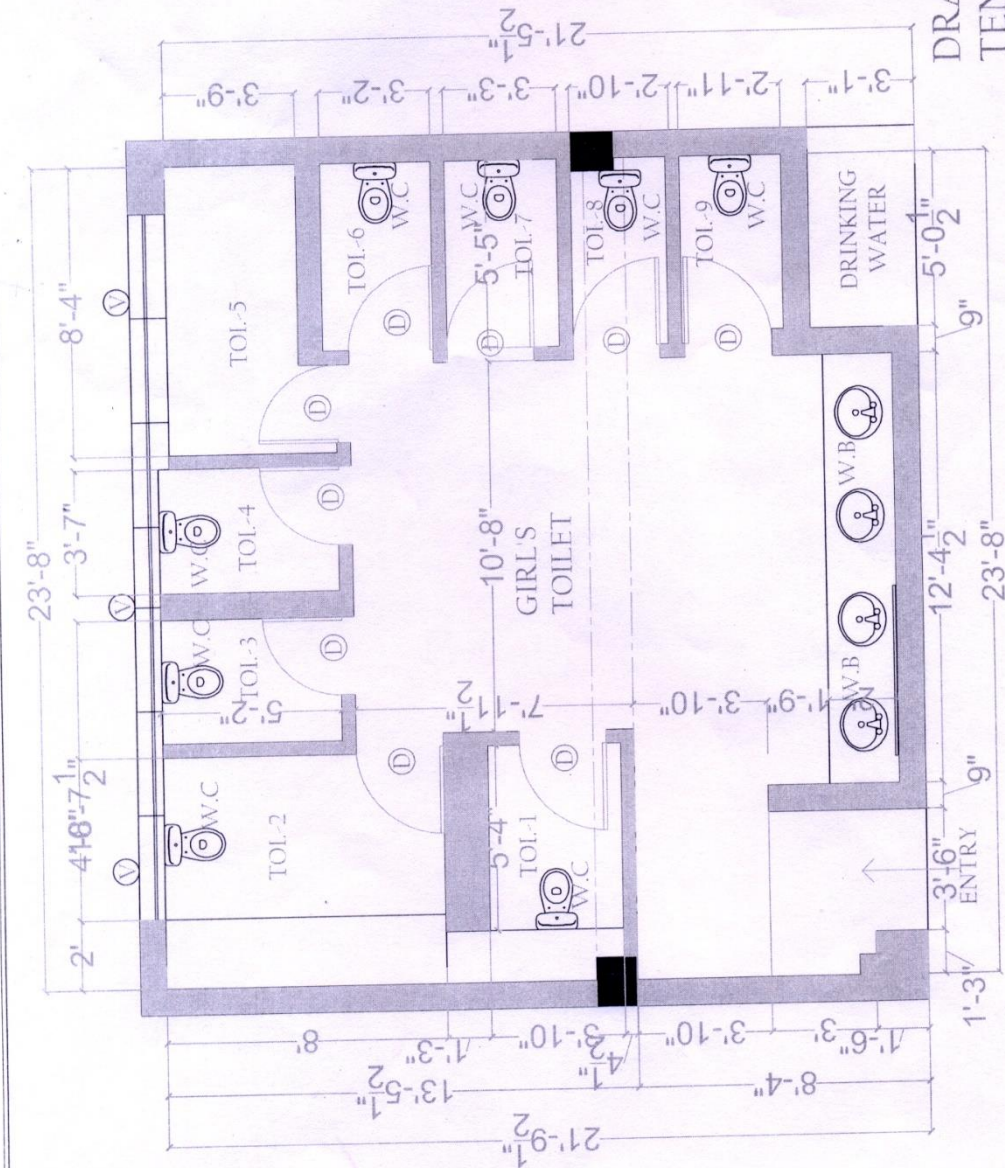
It is further certified that the above-mentioned amounts have been derived from the books of accounts presented before us for the above-mentioned periods.

Chartered Accountants









DRAWINGS FOR  
TENDER - A



DATE: 09/11/2019  
DRAWN BY: SHABANA  
SCALE: 1/4" = 1'-0"  
FIT TO PAPER: 1 - 103

EXISTING THIRD FLOOR PLAN

CURT: MATA SUNDRI COLLEGE FOR WOMEN  
(UNIVERSITY OF DELHI)  
MATA SUNDRI LANE, NEW DELHI-110002